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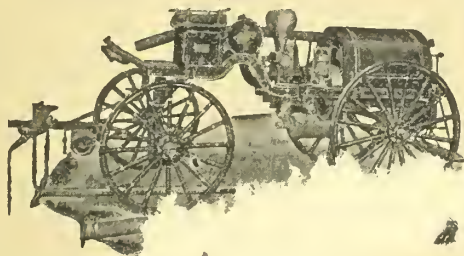
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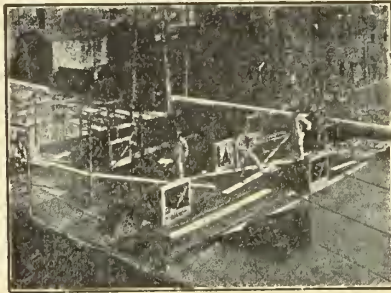
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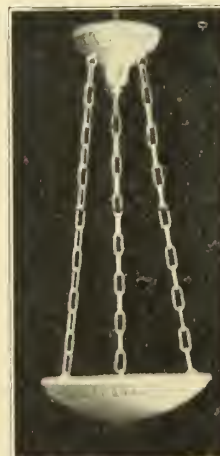


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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., January 2, 1915.

Number 5

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Corrugated Bar Co., St. Paul, Minn.  
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Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.

Shorthill Steel & Iron Works, Des Moines  
St. Paul Foundry Co., St. Paul, Minn.

**CORNICES.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.

Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.

Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

H. C. Thomas & Bro., La Crosse, Wis.  
**CORRUGATED IRON, ETC.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Avery Steel & Iron Co., Minneapolis  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.

American Bridge Co., Minneapolis, Minn.  
**CONCRETE REINFORCING.**  
Berger Mfg. Co., Minneapolis, Minn.

Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

**CONTRACTORS' SUPPLIES AND MACHINERY.**  
Decker Hardware Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**CULVERTS.**  
Berger Mfg. Co., Minneapolis, Minn.  
Victor H. Leeb, Fargo, N. D.

Shorthill Steel & Iron Works, Des Moines  
Piesanz Stone Co., Winona, Minn.  
Klauser Mfg. Co., Dubuque, Iowa

Minneapolis Steel & Mach. Co., Mpls., Minn.  
**CRUSHED STONE.**  
Fowler & Pay, Mankato, Minn.

Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.

New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.

**DEADENING MATERIAL.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Northern Insulating Co., St. Paul  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

Union Fibre Co., Winona, Minn.  
**DECORATIONS.**  
Odin J. Ovan, La Crosse, Wis.

**DITCHING MACHINES.**  
Bay City Dredge Works, Bay City, Mich.  
**DREDGES.**  
Bay City Dredge Works, Bay City, Mich.

**ELECTRICAL ENGINEERING.**  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

Northern Electrical Co., Minneapolis, Minn.  
Beck Electric Constr. Company, Minneapolis

**ELECTRIC MOTORS AND SUPPLIES.**  
Elker Electric Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.

**ELECTRIC SPECIALTIES.**  
Elker Electric Co., Minneapolis, Minn.

**ELEVATORS AND ENCLOSURES.**  
Kimball Bros Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.

Lee & Hoff Mfg. Co., St. Paul, Minn.  
Frank A. Pigeon, Minneapolis, Minn.

**ELEVATOR CABS.**  
N. W. Fixture & Cabinet Co., Mpls., Minn.

**ENGINEERS.**  
Oscar Claussen Engineering Co., St. Paul, Minn.

Lewis A. Larsen, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.

L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.

W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

**EXCAVATORS.**  
Bay City Dredge Works, Bay City, Mich.

**FIRE ESCAPES.**  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis

Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.

Milwaukee Corrugating Co., Milwaukee, Wis.  
Shorthill Steel & Iron Works, Des Moines  
St. Paul Foundry Co., St. Paul, Minn.

**FIRE HYDRANTS.**  
Waterous Engine Works Co., St. Paul, Minn.

**FIREPROOF DOORS.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Thorp Fireproof Door Co., Minneapolis, Minn.  
**FLUE LINING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis  
Northwestern Lime Co., St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

St. Paul Lime & Cement Co., St. Paul, Minn.  
**FIRE PROTECTION APPARATUS.**  
Waterous Engine Works Co., St. Paul, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
**FIREPROOFING DOORS AND SHUTTERS.**  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

**FLOORING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Pama Stonewood Co., Minneapolis

W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.

Scott-Graff Lumber Co., Duluth, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Stephenson Co., Wells, Mich.

Wisconsin Land & Lumber Co., Hermansville, Mich.

**FURRING.**  
Corrugated Bar Co., St. Paul, Minn.

**GAS AND ELECTRICAL FIXTURES.**  
Jerdee & Hendrickson, Minneapolis, Minn.

Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

**GLASS.**  
American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.

Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

**GRAVITY CARRIER.**  
Minnesota Manufacturers' Association, North St. Paul, Minn.

**HARDWARE TRIMMINGS.**  
Decker Hardware Co., St. Paul, Minn.

Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.

W. S. Nott Company, Minneapolis, Minn.  
Waterous Engine Works Co., St. Paul, Minn.

**INSULATING MATERIAL.**  
Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Northern Insulating Co., St. Paul

W. S. Nott Company, Minneapolis, Minn.

Standard Salt & Cement Co., Duluth, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can easily be found by referring to the Alphabetical List of Advertisers on page three.

Union Fibre Co.....Winona, Minn.  
**INSURANCE.**

Fidelity & Deposit Co.....  
.....Minneapolis and St. Paul, Minn.  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

**IRON AND STEEL WORK.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
.....Davenport, Ia.

Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Des Moines Structural Steel Works.....  
.....Des Moines, Ia.

Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Oberg & Stamer.....Minneapolis, Minn.  
Shorthill Steel & Iron Works.....Des Moines  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenreiter Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
.....Minneapolis, Minn.

**JOIST HANGERS.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.,  
.....Davenport, Ia.

Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Concrete Steel Co.....  
Shorthill Steel & Iron Works.....Des Moines  
St. Paul Foundry Co.....St. Paul, Minn.

**LABORERS.**  
Diamond Labor Supply Co.....Chicago, Ill.  
**LIME.**

Fowler & Pay.....Mpls. and Mankato, Minn.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Landers-Morrison-Christenson Co.....  
.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.,  
.....St. Paul, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
Shevlin-Carpenter Lumber Co., Minneapolis  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
The Northwestern Lime Co., St. Paul, Minn.

**MANTELS—GRATES.**  
Drake Marble & Tile Co.....St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co., Mpls., Minn.  
**MARBLE, TILING, MOSAIC.**

Drake Marble & Tile Co.....  
.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co., Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co., Mpls., Minn.

**METAL SHINGLES.**  
Badger Steel Roofing & Corrugating  
Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

**METAL AND WIRE LATH.**  
Avery Steel & Iron Co.....Minneapolis  
Badger Steel Roofing & Corrugating Co.,  
.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co.,  
.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Shorthill Steel & Iron Works.....Des Moines  
St. Paul Lime & Cement Co., St. Paul, Minn.

**MILLWORK.**  
Baxter Sash & Door Co.....Duluth, Minn.  
Osgood Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graft Lumber Co.....Duluth, Minn.

**MORTAR MIXERS.**  
Mortar Mixer Corporation.....Iowa City, Iowa  
Standard Salt & Cement Co., Duluth, Minn.

**MUNICIPAL CASTINGS.**  
Davenport Mach. & Fdy. Co., Davenport, Ia.

**OFFICE FURNITURE.**  
Farnham Printing & Sta. Co., Mpls., Minn.

**ORNAMENTAL IRON AND WIRE.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis  
Builders Iron Works Co.....  
.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.,  
.....Davenport, Ia.

Demeules Bros.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
Midway Ornamental Iron Works.....  
.....St. Paul, Minn.

Minneapolis Steel & Mach. Co., Mpls., Minn.  
Shorthill Steel & Iron Works.....Des Moines  
St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis  
Sacketson Mineral Paint Works.....  
.....Milwaukee, Wis.

**PACKINGS AND HOSE.**  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

**PAVEMENT.**  
Barrett Mfg. Co.....New York, N. Y.  
**PIPE—CAST IRON.**

American Cast Iron Pipe Co., Minneapolis  
**PIPE AND BOILER COVERING.**  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.  
**PLASTER—WALL.**  
Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**PLASTERING—ORNAMENTAL.**  
Monarch Co.....St. Paul, Minn.  
Roy Curtis.....Duluth, Minn.

**PLASTERERS' SPECIALTIES.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
**PLASTIC ORNAMENTS.**

Monarch Co.....St. Paul, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
**PRINTING.**

Farnham Printing Co., Minneapolis, Minn.  
**PRISMS.**  
American Luxfer Prism Co., Chicago, Ill.

Crown Iron Works Co.....Minneapolis  
**PLUMBING AND HEATING JOBBERS.**  
**POWER PLANTS.**

National Mfg. & Supply Co., Mpls., Minn.  
**REVOLVING DOORS.**  
Van Kannel Revolving Door Co.,  
.....St. Paul, Minn.

**ROOFING GRAVEL AND ASPHALT.**  
Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.  
Selden Roofing & Manufacturing Co.,  
.....Minneapolis, Minn.

**ROOFING—METAL.**  
Badger Steel Roofing & Corrugating Co.,  
.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Duluth Corrugating & Roofing Co.,  
.....Duluth, Minn.

Gardner Hardware Co., Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.,  
.....Minneapolis, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornamental  
Co.....St. Paul, Minn.  
N. W. Roofing, Cornice & Stamping  
Works.....Minneapolis, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.  
**ROOFING MATERIAL.**  
Badger Steel Roofing & Corrugating Co.,  
.....La Crosse, Wis.

Barrett Mfg. Co.....New York, N. Y.  
Biesanz Stone Co.....Winona, Minn.  
Corrugated Bar Co.....St. Paul, Minn.

Hydraulic Press Brick Co., Minneapolis, Minn.  
John Leslie Paper Co., Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Standard Salt & Cement Co., Duluth, Minn.

**ROOFING AND SIDING—IRON AND STEEL.**  
Badger Steel Roofing & Corrugating Co.,  
.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis  
**SAND AND GRAVEL.**  
Mason City Sand & Gravel Co.,  
.....Mason City, Ia.

**SHINGLES—RUBBER.**  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**RUST-RESISTING IRON SHEETS.**  
Berger Mfg. Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

**SAND AND GRAVEL.**  
Biesanz Stone Co.....Winona, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**SASH AND DOORS.**  
Baxter Sash & Door Co.....Duluth, Minn.

Carr-Cullen Co.....Minneapolis, Minn.

Osgood & Blodgett Mfg. Co., St. Paul, Minn.

Scott-Graft Lumber Co., Duluth, Minn.

Shevlin-Carpenter Lbr. Co., Minneapolis

**SEWER PIPE AND DRAIN TILE.**

Iowa Sewer Pipe & Tile Co., Des Moines, Ia.

Lehigh Sewer Pipe & Tile Co.,

.....Fort Dodge, Iowa

Northwestern Lime Co., St. Paul, Minn.

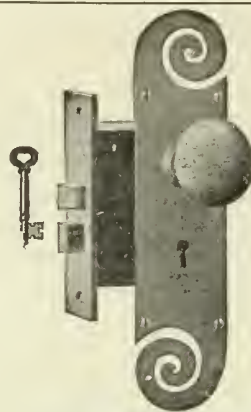


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**AFTER FEBRUARY 1st, 1915**  
15 So. 7th St., Minneapolis, Minn.

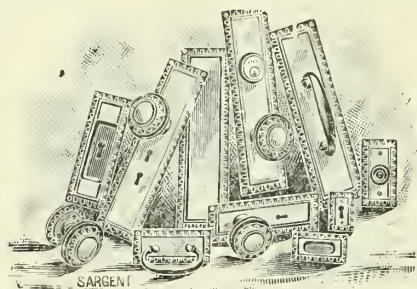


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"CORBIN"  
hardware provides the  
distinction and worth  
that lies in artistic de-  
signs and honest work-  
manship.

Ask for Catalogs

**WARNER HARDWARE CO.** 13 So. 6th St.  
Minneapolis.



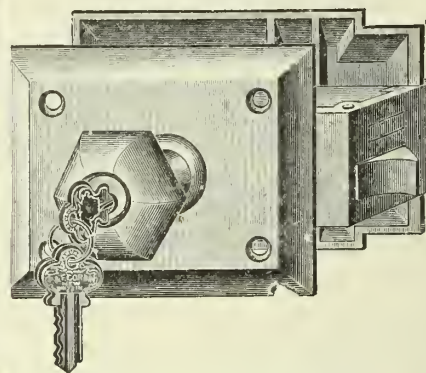
## SARGENT'S Artistic HARDWARE

Estimates fur-  
nished on all  
hardware and  
Contractors'  
Supplies.

**GARDNER HARDWARE CO.**

304-306 HENNEPIN AVENUE

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We make a  
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tractors' Supplies  
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**ADAM DECKER HARDWARE CO.** 347-49 JACKSON ST.  
ST. PAUL, - MINN.

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Maple --- Birch --- Beech



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GRILLES

All Kinds

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LET US FIGURE; ALL ESTIMATES FREE

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FORT DODGE, IOWA

MANUFACTURERS OF

**Large Drain Tile**

**Sewer Pipe**

**Well Pipe**

**Flue Linings**

**Wall Coping**



Face Brick      Enameled Brick  
Architectural Terra Cotta  
Metal Lath  
Cabot's Creosote  
Shingle Stains and  
Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, JANUARY 2, 1915

NUMBER 5

## EDITORIAL

O. L. COLBURN, Editor

### IT PAYS TO GET AWAY FROM THE ORDER BOOK.

The season of annual meetings has come. During January and February manufacturers and dealers in many lines will be summoned to yearly conferences for the good of the trade.

In some instances, perhaps too many, the member is not taking a lively interest in the convention. His experience at the last meeting may not have been altogether satisfactory. Or he may have fallen into the conviction that business is simply getting out and getting after it. This condition of mind is similar to that of the German manufacturer who hired a good-looking young man to travel for him. During the first week out the salesman sent in a series of daily reports which exclusively were expense accounts for livery rigs, railroad fare, automobile hire, telephone messages and hotel bills. The manufacturer wrote him at the end of 10 days:

"Yours received with bill for automobiles; what we want is orders."

"Yours received with bill for telephone. What we want is orders."

Of course, what is always wanted is orders. The order book is the indicator of business. But just the same it is necessary for every business man to get away from the order book. There is no better way to do this practically, than to attend the annual gatherings of his trade. At those meetings he will get the larger view; he will feel a better spirit and feel effectively the get-together impetus which is bringing business men to higher levels these days.

The importance of the right kind of a program for an annual trade convention now appears. Its preparation should be based broadly and should be arranged to interest, help, enlighten and correct. A program for an annual meeting of business men is by no means a negligible detail. It requires skill, intimate knowledge of the trade and careful balance of all interests. The program committee who send the delegates or members home saying the meeting was a good one, has done something. But the committee has a year to do it in and should produce a good result.

We have noticed what we think is a program of wrong proportions. It seems to take it for granted that the members of that trade need a good deal of scientific education and a large number of talks by professors are on the list. We do not think the business men attending their annual meetings want to go to school much. They want up-to-the-minute trade talks and reviews and speeches by men whose horizon is wide and viewpoint high. They want interesting reviews of the year and talks on national topics of commerce.

The outlook for a number of trade meetings, of which we happen to know, indicates a good attendance,—bigger than last year. All will do well to leave the order book at home mentally as well as in fact.

### SIGNS OF REVIVAL AT CHICAGO.

Encouragement to be derived from the developments of the machinery market recently is largely based on a noticeably improved inquiry, says Iron Age's Chicago correspondent. Not only is there a more general inquiry for manufacturing tools for industrial plant equipment, but several of the railroads have in a very tentative way inquired for prices on possible machinery requirements in the coming year. For the first three months of the new year there is now a much more tangible prospect for a satisfactory volume of business. One of the unsatisfactory features of current inquiry arises from

the very general desire to trade in old machines for new as against outright cash purchases. Some additional orders from European countries have been placed in this market recently, including a further order for turret lathes and several high speed metal saws for use in shipyard and fabricating shops.

### A POSSIBLE CHANGE OF STATE DRAINAGE OFFICIALS.

Minnesota's newly elected democratic governor, Congressman Hammond, and the new state legislature which will convene shortly, may change the supervision of the drainage work of the state. A former official recently informed the Improvement Bulletin that he regarded it more than possible that a different system would be established for conducting the work of this branch of the state government.

At present there is a state drainage engineer who supervises, and he is responsible to a board composed of the governor, secretary of state and the state auditor. When united for this duty, these three officials form the state drainage commission. Each of these officials has many other duties and their time for the consideration of drainage is necessarily limited. But drainage in Minnesota has grown to great proportions and it is increasing in extent. Immense areas are being reclaimed. The state's interest and duties in this big modern industry should be looked after by an official well equipped and not handicapped by other responsibilities. His work should not be incidental.

It is therefore suggested that there should be a state drainage commissioner—a good, practical man, and an engineer responsible to him instead of to the present rather nebulous body—the commission of the governor, secretary of state and auditor.

### PROPOSED NEW FIREPROOF DISTRICTS IN ST. PAUL.

Following is the proposed ordinance prepared by Building Inspector Van Ornum of St. Paul, for new limits for the fireproof building district:

It shall hereafter be unlawful to construct, and there shall not be constructed, within the following described fireproof districts, any non-fireproof building more than three stories in height, except as hereinafter provided: Said district shall be contained within the following boundaries:

Commencing at a point at the intersection of E. 3d and along the center line of E. 8th st. to the center line of Broadway st. to the center line of E. 8th st.; thence westerly along the center line of E. 8th st. to the center line of Wabasha st.; thence northerly along the center line of Wabasha st. to the center line of 9th st.; thence westerly along the center line of 9th st. to the center line of Franklin st.; thence southerly along the center line of Franklin st. to the center line of W. 5th st.; thence westerly along the center line of W. 5th st. to the center line of Main st.; thence southerly along the center line of Main st. to the center line of W. 3d st.; thence easterly along the center line of W. 3d st. to place of beginning.

Provided, however, that this provision shall not prohibit the construction within said "fireproof district" of additional stories on the top of non-fireproof buildings now erected, and so designed that such additional stories can safely be built thereon; but in no case shall be ground area of any such fireproof building be increased except by the erection of such fireproof structures.

Provided, however, that temporary one-story frame sheds may be erected within the said "fireproof district," for the use of builders adjacent to buildings in the course of erection, but such temporary sheds shall be demolished upon the completion of said buildings.

Provided, however, that buildings now erected within the "fireproof district" may be repaired or altered but not increased in size of floor area, and may be increased in height to not over three stories, as above provided for.



# A Practical Suggestion for Brick Interests

F. B. Martin, of Minneapolis, secretary and treasurer of the Northwestern Clay association, writes a letter on publicity and on the distribution of "ready-made" plans, that is highly interesting. What he says about the methods of advertising used by the cement men is largely true, although they, too, have published floor plans, and constructional details of houses that had never been built up to the time the advertising matter was issued. This letter deserves a great deal of attention.

In preparing and distributing books or sets of plans, it would seem that the publishers had lost sight of some very important points really fundamentals. One of these is the fact that people are more interested in knowing what they can do, than in thinking about what they can possibly do. The plans, as issued, are too much on the hypothetical side of the prospective builder.

Face brick manufacturers are interested in the exteriors of structures, rather than in the arrangement of the interiors. Why then, spend time and money upon the possible arrangement of rooms? Why not spend it all upon sketches made from photographs of what has already been done. This is even better than asking for and paying for "new" designs, that may be no better and may be some worse, than those that may be obtained from houses already built and which we know look well?

By eliminating the floor plans and sticking to the perspective or elevation, and by publishing designs that have snappy detail, you will not only do away with the greater part of the friction that now exists between the publisher of plans and the architect, but will make a friend of the architect, since these pictures will be educational.

Architects object to the constructive element, as invading their domain. They do not, however, object to reproductive work, for this, if properly done, advertises the architect.

It is well to note that the pushers of cement in its various forms, do not spend very much energy on probabilities—they show actualities. They use sketches and cuts made from photographs. Their publicity shows what is—not what may be.—Brick and Clay record.



PALACE OF FINE ARTS, SAN FRANCISCO EXPOSITION.

The Palace of Fine Arts at the Panama-Pacific International Exposition at San Francisco in 1915. This building will stand at the extreme west end of the main group of exhibit palaces, from which it will be separated by a lagoon, which it partly envelops. The building will be semi-circular in shape, 1,110 feet in its outside periphery. The front of the building will be screened by a colonnade; the structure will be approached from the main exhibit section upon causeways across the lagoon.

## Shape of Office Buildings More Important than Height

In the course of the campaign for the present Minneapolis ordinance limiting the height of buildings a man who was a student of office building problems advanced the proposition that it is better, cheaper and more profitable to carefully shape buildings to the lots they are to occupy than to limit the height of the structures. Virtually he advocated no limit, but he insisted on careful planning which would give every user of the building all possible light and ventilation. This man was W. L. Brackett, of Minneapolis, who at that time seemed about to carry to success a project for a modern twenty-five-story office building on the corner of 2d av. S. and 4th st. The outbreak of war in Europe caused a postponement of the enterprise.

There are three types of high buildings for downtown business purposes, according to Mr. Brackett—the L-shaped, the I-shaped and the T-shaped. There is no doubt whatever in his mind that the only shape which will stand all tests of scientific examination for utility, light, air, desirability of space, least cost of construction per foot of space, economy of operation, and finally, profit on the investment, is the L-shaped.

After a long and exhaustive investigation he adopted the shape for the twenty-five-story building at 4th and 2d av.

The chief claims for the superiority of the L-shaped structure for a corner lot are: That it gives the great amount of floor area susceptible of proper lighting; that it is more economical to build; that it is so much better than an E-shaped or U-shaped building that there is no comparison, but on the contrary, a sharp contrast of attractive office space

because in the L-shaped building all offices are outside offices. These advantages produce a greater rental. The L-shaped building is more nearly independent of adjacent buildings than any other kind. The same area as in buildings occupying more ground space is produced without more outlay by making it higher; that is, a seventeen-story, L-shaped building, according to Mr. Brackett, will cost no more than a twelve-story U-shaped or E-shaped structure and yet produce more rental since all the offices would be light and desirable, and a great deal more general satisfaction among the patrons.

Mr. Brackett maintains that it is unscientific and unprofitable, both for tenants and for general city conditions to create conditions in a business building which compel the occupants to use artificial light a great deal or all the time. It is a serious mistake from any point of view to do this when, by a little more effort and scientific study of the problem a building can be erected which will furnish bright and attractive rooms for all. In regard to the building at 4th and 2d av. the Standard, which he was promoting, and two office buildings of modern type in the city, Mr. Brackett has said:

"Had these two buildings been erected as I should have built them there would have been no added street congestion over present conditions, as the population of the two buildings would have been the same, if fifteen and seventeen stories on my plan, as now they have in ten and twelve stories on a plan of occupying more ground area.

"So far as darkening the streets or the differences in

(Continued on Page 41.)



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### ELECTION, MINNEAPOLIS BUILDERS' EXCHANGE.

The annual meeting and election of the Minneapolis Builders' Exchange will be held Jan. 6; polls open 12 a. m. to 4 p. m. President Maurice Schumacher is the only candidate to succeed himself. Other candidates are: First vice president, John McDonald, E. D. Spencer; second vice president, Ed. Nordblom, Wm. Penn; treasurer, C. F. Splady, Frank Tozer; sergeant at arms, L. M. Osborne, L. D. Sisson; directors, N. W. Nelson, A. W. Ludwig, Wm. Schupp, Walter Thorp, L. H. Johnson, Del. Hyman; committee on complaints, G. M. Jones, John Hernlund, Arthur Brin, E. E. Leighton, Geo. Cook, D. C. Smith, Byron Lindgren, P. G. Speaks, W. W. Hughes.

### BOWLING RECORDS OF ST. PAUL BUILDERS' EXCHANGE.

**Score, Dec. 28, 1914.**—Lumbermen, 831, 815, 827, total 2,473, won 1, lost 2, vs. Contractors, 863, 737, 949, total 2,549, won 2, lost 1; Bond, 794, 888, 801, total 2,483, won 1, lost 2, vs. Brick and Cement, 845, 794, 786, total 2,425, won 2, lost 1; Hardware, 649, 708, 695, total 2,052, won none lost 3, vs. Sheet metal, 844, 751, 781, total 2,376, won 3, lost none; Plumbers and Steamfitters, 891, 892, 818, total 2,601, won 2, lost 1, vs. Steel and Iron, 805, 710, 858, total 2,375, won 1, lost 2.

**Standing.**—Cement, Stone and Brick, won 33, lost 12, percentage .734; Plumbers and Steamfitters, won 32, lost 13, percentage .712; Bond, won 25, lost 20, percentage .556; Sheet Metal, won 24, lost 21, percentage .534; Contractors won 20, lost 25, percentage .445; Lumbermen, won 17, lost 28, percentage .378; Steel and Iron, won 16, lost 29, percentage .356; Hardware, won 13, lost 32, percentage .289. Team high score, three games, Plumbers and Steamfitters, 2,601; team high score, one game, Contractors, 958; individual high score, three games, J. Thompson, 643; individual high score, one game, J. Shiely, 258.

**Next Game, Jan. 4, 1915.**—Pfister's, Lumbermen vs. Cement, Stone and Brick; Contractors vs. Bond; O'Brien's, Structural Steel vs. Sheet Metal; Plumbing and Heating vs. Hardware.

### BUILDERS' CLUB PARTY A BIG SUCCESS.

Every seat in the Bainbridge theater was filled by the theater party of the Builders' club, the social organization of the Minneapolis Builders' Exchange. The performance of Maeterlinck's Blue Bird by the Bainbridge Stock Company proved to be unusually good in acting and in the scenic details. There were over 250 at the Builders' Exchange rooms after the performance and blue birds hovered about. President Ralph and his able assistants repeated the success of the theater party a year ago.

Civic & Commerce Association announcements of conventions in Minneapolis in January, include: N. W. Clay Association, headquarters West Hotel, Jan. 19-20; T. B. Martin, secretary, 1018 Lumber Exchange; State Independent Telephone Association, Dyckman Hotel, Jan. 19-21; H. F. Lueders, secretary, Norwood, Minn.; (Independent Telephone Association of America meets same time); Western Association of Electrical Inspectors, Radisson, Jan. 26-28; N. Thompson, secretary, 1404 McCormick building, Chicago.

### ELECTRICAL INSPECTORS OF THE WEST TO MEET HERE.

Among the several conventions of especial interest in the building trade to be held in Minneapolis this month is that of the Western Association of Electrical Inspectors. The association was organized in 1905. During the intervening period it has taken a most active part in all matters relating to materials, devices and methods involved in electrical installation for light, heat, power and signal purposes. Very successful conventions have been held in Chicago, St. Paul, Milwaukee, St. Louis, Detroit, Omaha, Indianapolis and Cincinnati, and this, the tenth annual international convention, will be held in Minneapolis, January 26-28, 1915, at The Radisson. The members of this association are all men of influence, and hold the important position in their respective communities of protecting, as they do, the lives of hundreds of thousands of people and millions of dollars' worth of property from the hazard incident to improper electrical construction. This organization is now recognized as one of the leading factors in creating and maintaining the confidence relative to electrical safety enjoyed through the enactment and enforcement of the National Electrical Code. Emil Andersen,

1230 Plymouth building is general chairman; Fred G. Dustin of the Northern Electric Co. is secretary-treasurer; Robt. F. Pack, general manager of the Minneapolis General Electric Co. is chairman of the ways and means committee; Guy W. See, Oscar M. Frykman and R. S. Daniel are chairmen of committees.

The American Concrete Pipe Association will meet in Chicago, Feb. 15-16, during the cement show.

Dates ahead: Jan. 12-14, Iowa City Products Manufacturers' Association, engineering hall, Iowa state college, Ames, Iowa; Jan. 19-20, Northwestern Clay Association, Minneapolis, Minn.; Jan. 26-28, National Association of Builders' Exchanges, annual convention, Columbus, Ohio; Jan. 26-28, Canadian National Clay Products Association, annual convention, King Edward hotel, Toronto, Ontario; Feb. 4-5, Wisconsin Clay Manufacturers' Association, Milwaukee, Wis.; Feb. 8-9, National Builders' Supply Association, annual convention, Hotel Sherman, Chicago; Feb. 8-10, Illinois Clay Manufacturers' Association, New Leland hotel, Springfield, Ill.; Feb. 9-12, American Concrete Institute, eleventh annual convention, Auditorium hotel, Chicago, Ill.; Feb. 10-17, eighth annual Chicago cement show, Coliseum, Chicago, Ill.; Feb. 15-16, American Concrete Pipe Association, Chicago, Ill.; Feb. 15-20, National Brick Manufacturers' Association, Statler hotel, Detroit, Mich.; March 2-6, Midwest cement show, Auditorium, Omaha, March 3-5, Mid-West Cement Users' Association, Omaha.—Rock Products.

The next annual meeting of the Wisconsin Clay Manufacturers' Association will be held in Milwaukee at the St. Charles hotel, February 4 and 5, 1915. Live up-to-date topics will be on the program and the interest in the convention will be greatly increased by a large attendance and a full discussion of the subjects presented. There are about eighty brick and tile manufacturers in the state and all of these should be represented at the meeting. The subjects of drying and burning of clay products, the accounting and bookkeeping for small brick yards, and the movement for the increased sale of brick and tile will be among the various topics on the program. The final program will be out about Jan. 20. John Ringle, Wausau, is president; Samuel Weidman, Madison, secretary; Oscar Zimbal, Sheboygan, treasurer.

Albert E. Manchester, Milwaukee, Wis., superintendent of motive power of the Chicago, Milwaukee & St. Paul railroad, and in charge of the West Milwaukee locomotive, car and repair shops, celebrated, December 16, the fiftieth anniversary of his connection with the company. In honor of the golden jubilee of continuous service, President Albert J. Earling and other officials of the road arranged a banquet in Mr. Manchester's honor at Hotel Pfister, Milwaukee, on the evening of that day. Fifty years ago Mr. Manchester was given a job as machinist apprentice in the shop of the railroad at Portage, Wis.

Something new in bridge letting: At Lake Andres, S. D., the county auditor after awarding the bridge contract for the ensuing year discovered that the bridge plans were all missing. They were still lost when the last news reached the Improvement Bulletin. The Hennepin County Bridge Co., of Minneapolis, was the winners, succeeding the Standard Bridge Co., of Omaha, which had had the contract for years.

The Concrete Sewer Pipe & Drain Tile Factory, Waupaca, Wis., (R. F. Whale, president), manufacturers of concrete products, specializing in concrete sewer pipe and tile, machine made, is now in a temporary building, but will erect in spring, new concrete building, 150x50, with curing chambers. The company is in the market for a concrete mixer, 40 h. p. motor or gasoline engine, reinforcing material for large pipe, coloring and waterproofing material.

W. Siwart Smit, and Wm. C. Koch were the St. Paul delegates at the face brick convention at French Lick.

At Reynolds, N. D., a new construction company has been incorporated which will be known as the Reynolds Construction Co. and will manufacture concrete building blocks.

The Olsen Concrete Mixer Co., of Elkhorn, Wis., has started operations and turned out its first machine. The company was organized there last August and a large block of the stock is held there. The first machine turned out is an improvement on the old style mixer, and several new features have been added.

The annual banquet of the Northwest Granite Manufacturers' Association will be held January 5 at the Commercial Club rooms, St. Cloud, Minn. There will be a musical program given during the banquet and at its conclusion there will



be a number of informal toasts. It is expected that several out-of-town men will be invited to address the members of the association.

S. E. Matter of the Standard Salt & Cement Co., Duluth, attended the American Face Brick Association meeting at French Lick Ind. Geo. Swartz was present from Milwaukee.

The annual convention of the Iowa Clay Products Manufacturers' Association will be held Jan. 12, 13, 14, at Ames, Iowa, in connection with the Clayworkers' Institute, conducted by the Ceramic department of the Iowa state college. The following program has been arranged, January 12th: Address of welcome, Hon. R. A. Pierson, president I. S. C.; response, Hon. J. L. Stevens, Boone, Iowa; appointment of committees; reports from members. Tuesday, afternoon session: Address of the president, B. C. Keeler, Mason City; "Fuel Economy in Down Draft Kilns," Paul Beer, Des Moines; "Fuel Economy in Small Plants," engineer of Taylor Institute Co., St. Louis branch; "The Economy of Producers' Gas as Observed in the Burning of Down Draft Kilns," I. M. Justice, Dayton, Ohio. Tuesday evening: "The Marketing of Clayware," F. W. Darling, of the Clay Products Co., Chicago. Wednesday morning: Session conducted by Ceramic Department of the Iowa State College as an institute for clayworkers; "The Commercial Clays of Iowa," Dr. S. W. Beyer; "Prospecting—Valuation and Handling of Clay Banks," Prof. H. F. Staley; "Manufacturing and Drying Features of Iowa Clays," M. F. Beecher, ceramic engineer, I. S. C. experiment station. Afternoon session. "The Clay Pit—Its Economical Operation in the Practical Application of Efficiency," H. R. Straight, Adel; Power—(a) "The Oil Engine, Electric Generation and Transmission," engineering department, Fairbanks, Morse Co., Chicago, (b) "The Corliss Steam Engine," engineering department, Murray Iron Works, Burlington, (c) "Comparison as Between the Commercial Electric Current and Steam as Observed in Practice," Mr. Scott, of the Boone Brick, Tile & Paving Co., Boone, Iowa; "Fire Insurance on Clay Plants—Its Cost and How It May Be Reduced," Randall & Campbell Insurance Bureau, St. Louis; evening entertainment at engineering hall—a real picture show. Thursday morning: "Physics and Chemistry of Burning Clays," Prof. H. F. Staley; "Preliminary Report on Tests of Iowa Fire Clays," M. F. Beecher; "Sorting of Drain Tile to Conform to Quality Tests," Prof. A. Marston, dean of engineering department; "Clay Products in Farm Buildings," Prof. J. B. Davidson; 1:30 p. m.: "Advertising to Reach the Farmer," E. G. Zorn, associate editor Brick and Clay Record, Chicago; "Practical Demonstrations of Direct Advertising," H. R. Straight, Adel; "Cost Determination—Its Value as Demonstrated in Practice," James L. Childs, of the Hancock Brick & Tile Co., Findlay, Ohio; "Fire Insurance Rates as Applied to Hollow Tile Structures," Mr. Doerffler, Des Moines, Iowa; report of secretary and treasurer; report of committees; election.—From the Clay Worker.

New officers of the Montana Good Roads Association are: A. L. Smith, Helena, president; H. W. Brown, Cascade, and Dan McQuarry, Missoula, vice presidents; M. H. Biggs, Helena, treasurer. Secretary to be chosen by the president.

A. H. Hopeman (Hopeman Construction Co.) Moorhead, Minn., has secured another ditch contract in Wilkin county. His company has built a number of ditches there. Work on the latest will start next spring.

#### ARCHITECTS AND ENGINEERS.

Harry Downs of Downs & Eads, architects, Minneapolis, is not Harry Downes of the fifth ward, just elected alderman, but lots of the architect's acquaintances think he is the man and insist on congratulating him. Mr. Downs is a well known, popular mason and at a recent lodge meeting a dozen or more brothers squeezed the hand as they thought, of a new city law-maker. One man, who has an elevated standing and gets business from the city suddenly developed a distant acquaintance into a very warm feeling with hearty congratulations.

Thomas G. Holyoke, architect of St. Paul, has been appointed a member of the State Art Commission. Mr. Holyoke is the architect of many of the fine residences, churches and other important buildings of the capital.

H. A. Rogers of Rogers Co., architects' supplies, Minneapolis and secretary of the Minneapolis Society of Engineers, has just returned from a 3,000-mile trip east. He found a much better feeling in the business world; New York as lively as usual and Pittsburg in good spirits as a result of the resumption of work in mills, including the great plant of the Westinghouse Co. which is now running full capacity. Mr. Rogers recently received an inquiry for bids from Glasgow, Scotland on 100 gross of dry batteries.

County Surveyor Beim, Crookston, Minn., becomes county drainage engineer upon his retirement as surveyor in favor of the successful candidate for that office, Mr. Raff. Mr. Beim has finished the survey for the ditch near McIntosh.

The regular bi-monthly meeting and luncheon of the Minneapolis Jovian league was held at the Rogers hotel, Breakfast room, Tuesday Dec. 29. O. A. Rofelty had arranged an interesting entertainment and there was a good attendance. W. T. White, Tribune, Metropolitan block; H. E. Brillhart, secretary.

R. G. McDowell & Co., architects, Des Moines, Iowa, have moved to Securities building.

Charles S. Hancock, Jos. L. Wilson and Irwin Newman have formed the Irwin D. Groak Engineering Co., at Chicago.

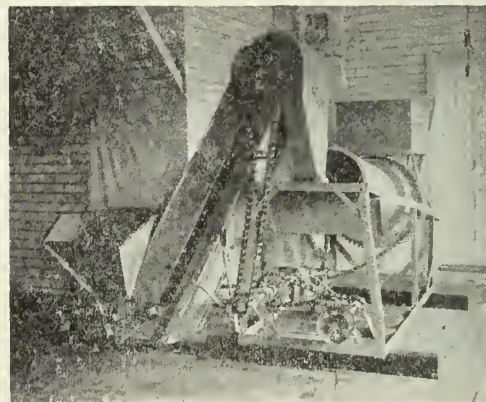
A. J. Fenn, engineer, Little Falls, Minn., was in the city; work has been held up for the winter on the new dam there.

E. D. Tuttle, architect, Winnipeg, Man. recently moved his office to 705 McArthur building.

Iowa Chapter, A. I. A., held its annual meeting at Sioux City. Wm. L. Steele of Sioux City, was re-elected president; F. J. Herr of Dubuque, vice president; E. H. Taylor of Cedar Rapids, secretary-treasurer. The next convention will be held in Dubuque; Iowa architects will ask the state legislature to pass a law for the registration of architects at its next session.

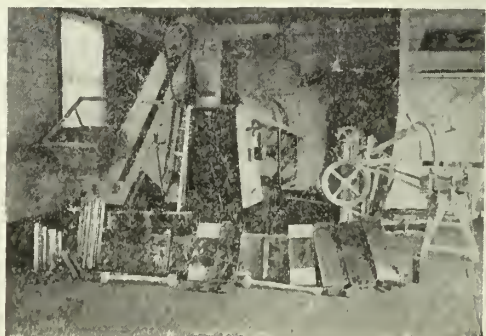
#### A SOUTH DAKOTA MIXER.

One of the few concrete mixers that is manufactured west of the Mississippi is made by the Bragstad Concrete Machinery Co., at Canton, S. D. This company reports a good year and in making ready for the 1915 season, has two attractive models to offer.



Bragstad Concrete Mixer on Skids.

One of these is the regular mixer which employs a slightly different principle in the measuring of the materials for the concrete. The measuring is done by means of elevator cups of accurately proportioned sizes, the hopper being arranged with slides which permit the contractor to secure any desired mixture. The price of this mixer is \$300.



Complete Bragstad Unit Outfit Including Mixer, Tamper and Block Machine.

Perhaps the most attractive machine is the Bragstad Unit outfit for the small town contractor, which includes the mixer, and also the tamper and block machine, with full set of attachments. This can be operated in a money-making way and the cost is but \$725.00. The state superintendent of construction for South Dakota has given the machinery his endorsement and the line is now on exhibit at the Manufacturers' Supply Co. in Minneapolis.



# Barrett Specification Roofs

## A Modern Shop and a Modern Roof

**H**ERE is a picture of The Barrett Specification Roof on the big new shop of the Illinois Steel Company in Chicago, laid over a concrete deck.

Cut through this roof at any point and you will find six layers of pitch and five of felt, for the method of procedure in the laying of the roof is so carefully defined in The Barrett Specification that, if it is followed, it is not possible to find any spot in the roof which does not have its full quota of pitch and felt.

This type of roofing was selected for the building because its first

cost is lower than that of any other permanent form of roof covering and the cost of maintenance is absolutely nothing.

This combination of low first cost and no maintenance cost explains why there are *more* Barrett Specification Roofs on permanent structures than any other kind.

Another important feature is the fact that Barrett Specification Roofs take the base rate of fire insurance. In case of fire from within they form a continuous air-proof fire blanket.

All first-class structures, such as city dwellings, office, railroad and commercial buildings of all kinds should have Barrett Specification Roofs as a matter of real protection and sound economy.

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Has superior covering capacity and is vastly superior to other paints in its permanence and resistance to dampness. Booklet on request.

### Tar-Rok Sub Floors

This construction provides the most suitable surface on which to bed plank (without the use of sleepers) where a wooden lower floor is desired in factory, machine shop, storehouse, etc., effecting a maximum of strength, rigidity and protection against dry rot, decay or fire, at a nominal cost. Booklet on request.

*A Copy of The Barrett Specification, with roofing diagrams, free on request.*

**Special Note** We advise incorporating in plans the full wording of The Barrett Specification, in order to avoid any misunderstanding. If any abbreviated form is desired, however, the following is suggested:

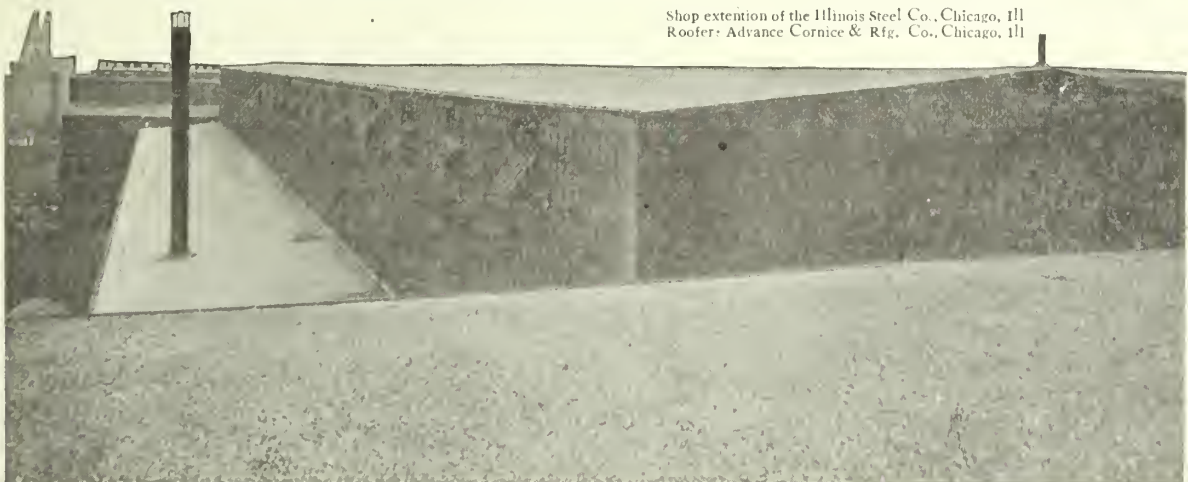
**ROOFING**—Shall be a Barrett Specification Roof, laid as directed in printed Specification, revised August 15, 1911, using the materials specified and subject to the inspection requirement.

## BARRETT MANUFACTURING COMPANY

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Shop extension of the Illinois Steel Co., Chicago, Ill  
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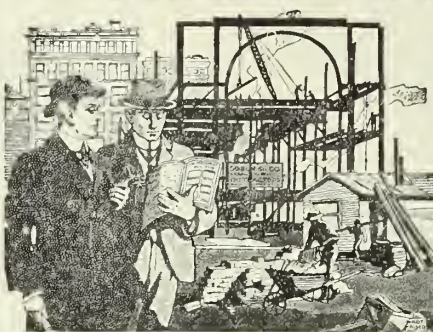
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**OFFICIAL ADVERTISEMENTS** for pro-  
posals will be published in this department  
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engineer.

**RATE:** 15c per line each insertion. No  
discounts allowed. Several insertions are  
customary to insure full and fair competi-  
tion.

**PUBLICATION DAY:** Last forms close  
10 a. m. Friday. Copy received up till that  
hour will be published in The Bulletin and  
delivered to subscribers the next day. Copy  
received later cannot be published till issue  
of the following week.

**MINIMUM CHARGE:** No advertisement  
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long distance telephone.

**PRINTED SLIPS** containing the ad, are  
furnished to officials, architects and others  
interested, for distribution by them, without  
extra charge.

## Proposal Index

Bids Close		See Imp. Bulletin Dated
Jan. 7.	Biology Bldg., University, Minneapolis	Dec. 19
Jan. 7.	School, Osakis, Minn.	Nov. 28
Jan. 11.	Judicial Ditch 1, Owa- tonna, Minn.	Dec. 26
Jan. 12.	Light fixtures, school, Ely Minn.	Jan. 2
Jan. 13.	Mech. System for Mail, P. O., Minneapolis, Minn.	Dec. 19
Jan. 18.	Addition to Soils building, Univ. of Wis., Madison, Wis.	Dec. 12
Jan. 18.	Sewers, Sandstone, Minn.	Dec. 19
Jan. 18.	U. S. Custom House, Re- modeling, etc., St. Louis.	Dec. 26
Jan. 19.	Remodeling, Custom House, St. Louis	Dec. 19
Jan. 20.	Judicial Ditch 23, Be- midji, Minn.	Dec. 26
Jan. 20.	Judicial Ditch 23, Be- midji, Minn.	Dec. 26
Jan. 20.	Judicial Ditch, 28, Be- midji, Minn.	Dec. 26

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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.  
Phones: N. W. 3902. T-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

John Fager, 4105 S. Vincent av., 2-story plaster veneer duplex; address owner, 110 S. 2d.....	5,000
L. V. Blomquist, 4843 26th av. S., 1½-story plaster veneer dwl.; Nels J. Servin, builder; address owner, 2300 Central av.....	2,000
Mrs. Matilda Theyson, 2323 E. 32d st., 1-story frame dwl.; A. Iverson, builder; address owner, 3204 23d av. S.....	1,200
City of Minneapolis, 50th and Lyndale av. N., 2-story brick barn; address owner.....	10,000
A. J. Archambo, 225 W. 15th st., 3-story brick apartments (31); address owner, 315-21 5th av. S.....	65,000
E. H. Erickson, 105-07 Spruce place, remodel brick veneer tenement into six apartments, also minor repairs; address owner, 2600 34d av. N.....	1,200
J. S. Robbins, 808-10 5th av. S., repairs after fire; Pike & Cook Co., builders; address owner, 416 S. 5th.....	3,500
J. R. Addy, 5117 40th av. S., 1-story plaster veneer dwl.; address owner, 5024 42d av. S.....	1,500
Gladys L. Wilson, 4428 3d av. S., 1½-story plaster veneer dwl.; address owner, 3128 Snelling av.....	1,000

\*Haley & Johnson, architects, Plymouth building, are preparing plans for a store, office and flat building at Snelling and Sherburne, St. Paul, for S. A. Swanson, 1475 W. Minnehaha, St. Paul, foundation started, 42x119, brick, 2-story, full basement, barber shop in basement, 5 stories, 3 apartments, 14 offices, running water in all offices, baths in flats, public toilets, incinerators, steam heat, hardwood trim, pitch and gravel roof, plate glass and metal fronts, gas ranges, day labor; owner builds; cost \$18,000.

A. L. Garlough, architect, Rosen building, 44 W. 4th st., St. Paul, has furnished plans for a moving picture theater on Lyndale near Lake, (2932 S. Lyndale); brick, steel and reinforced concrete, 115x46; foundation in; general contractor, A. E. Rydlund, 910 Andrus building; Geo. P. Ashworth, agent, 643 Portland av., St. Paul, Minn.; owner, Calhoun Theater Co., S. J. Hoy, secretary, 511 5th av. SE., Minneapolis; cost \$15,000.

\*Haley & Johnson, architects, Plymouth building, have furnished plans for a duplex at 1693 Minnehaha, St. Paul, for Jonas Smith, St. Paul; frame, 26x55, hot water heat, sleeping porches, front porches, two hot water plants, laundry, oak and birch finish, gas and electric light, deadening felt between floors, shingle roof; plans out next week; figure staken by owner and architect.

Morrell & Nichols, landscape architects, Palace building, have been authorized to proceed with the development of the entire track of land at Carlton college, Northfield, Minn.; about 200 acres; extension and improvement of athletic field and campus, laying out of tract with regard to location of proposed buildings; arrangement of the farming section; surveys being made.

Plans have been drawn for a large ice cream factory, 80x100, 2-story and basement, complete modern equipment, for the Lathrop-Kemps Ice Cream Co., 222 N. 5th st.; W. S. Lathrop, president; reinforced concrete, fireproof, heating, plumbing and wiring, refrigeration; owners state it will have most complete equipment west of Chicago; figures will be taken in February.

The Barnett-McQueen Co., Minneapolis and Fort William Ont., were awarded the contract for the 1,300,000-bushel elevator at Vancouver, B. C.; 350,000-bushel working elevator and 950,000-bushel storage; reinforced concrete, brick panel walls; nine receiving pits; sacking plant of reinforced concrete; transformer house, office, 2,200 lineal feet double belt conveyor gallery.

\*Chapman & Magney, architects, Essex building, will have plans out about Feb. 1, for the Sumner branch public library at 6th and Emerson N.; L-shaped, 65x65, brick and concrete, hot water heat, tile or slate roof, wood furnishings; bids will be taken and contract let so that construction can start early in spring.

The Beck Electrical Construction Co. are installing 225 additional h. p. and lighting for the addition to the Minneapolis Artificial Ice plant. They are also re-connecting the

present outfit, rearranging switchboard, panels and conduit in the old plant. They will furnish 2,300 V. new oil switches, circuit breakers, meters, etc.

\*Glenn L. Saxton, architect, Plymouth building, has furnished plans for a modern dwelling at Harriet and 40th, for M. P. Johnson, 2713 3d av. S., 1½-story, rough cast, 28x30, white oak and birch trim, hot water heat, mantel, sun-room, sleeping porch, \$4,500.

The Beck Electrical Construction Co. have just completed the electrical installation of the Prospect Park Methodist Episcopal church. The main auditorium and balcony are illuminated by special indirect lighting fixtures, designed and built for this church.

General contract for remodeling the residence of C. E. Cook, 620 E. 18th st., into a duplex was awarded to P. J. Sonner, 204 Andrus, two hot water heating plants, alterations to cost \$4,000; plans by Downs & Eads, architects, N. Y. Life building.

The Beck Electrical Construction Co. just completed electrical installation in the First M. E. church. The church is lighted by means of the new 300 watt nitrogen lamps. They have also completed a special installation in the Trinity Baptist church.

The Beck Electrical Construction Co. has just completed a 2,300 V. installation for the Twin City Box Co. and another 2,300 V. installation for the Minneapolis Manufacturing Co., these installations including switches, transformers, etc.

John V. Koester, architect, Iron Exchange, has furnished plans for a modern residence at 2808 Lake pl. for Mrs. Elizabeth T. Godley, 1912 S. Aldrich av.; frame, stucco, 2-story, 34x38; hot water heat, mantel, \$4,500.

L. V. Bloomquist, 3933 Oakland av., is building a plaster veneer dwelling at 4843 26th av. S., 24x26, 1½-story, concrete block foundation, hardwood trim, plumbing, gas; Nels J. Servin, builder, 3412 32d av. S.

Fleisher-Rose Construction Co., Plymouth building, have the contract for a moving picture theater in St. Paul, 14th and Jackson, for J. Fredman, 152 E. University av., St. Paul; 1-story, stucco, \$8,000.

\*Glenn L. Saxton, architect, Plymouth building, has furnished plans to the Bovey-Schute Lumber Co., for a dwelling to be built at one of their line yards; frame, 24x26, birch trim, modern, \$3,200.

H. N. Leighton Co. have the general contract for alterations and improvement in the building at 17 S. 7th, for W. L. Badger, to be occupied by the Morison Hardware Co.

John Fager is building a duplex at 4105 S. Vincent, 22x46, plaster veneer, hot water heat, modern, day labor, no architect, concrete and concrete block foundation.

One of the plans for a motor speedway will be considered by the state fair officials January 2: J. C. Simpson, secretary, state fair, office on grounds.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.  
Phone: N. W. Cedar 1683.  
Mail or telephone news not later than Wednesday.

### Building Permits

Wm. F. Maetrcjean, 1302 W. Minnehaha, 1-story frame dwl., Minnehaha near Dunlap; O. J. Haagensen and E. Olson, builders.....	2,400
Albert Diesslin, 473 Thomas, builder, 1½-story frame dwl., Edmund near Avon.....	2,600
Ernest A. Davin, 1194 Burr, builder, 1½-story frame dwl., DeSoto near Bramerd.....	1,800
Henrietta Lambrecht, 159 Summit, 2-story brick veneer flats, 394 Dayton; Frank Lambrecht, builder.....	4,700
John Jzybowski, 1½-story fram dwl., Geranium near Mendota; Jos. J. Vanouskor, builder.....	5,000
Mr. Vick, 2-story frame dwl., 1815 Igichart; Fred Swanson, builder.....	4,000

Chas. H. Johnston, architect, Capital Bank building, will have plans ready about Jan. 15, for completing the mansion of Oliver Crosby, River Drive and Marshall av.; foundation in and walls up, by Chas. Skooglin, contractor, Ryan Annex; only interior work remains and will be spring work; special tile and wood floors, ornamental plaster ceilings, ornamental bronze work, French windows and doors, paneled wainscoting,



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT

ASSETS \$3,514,125.50

Both Phones 622

The Hood & Matschke Co.

GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.

ASSETS \$4,982,371.79

MINNEAPOLIS, MINNESOTA

### Brick of Quality.

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ALL KINDS

Call for Samples and Prices

DICKINSON Fire and BRICK CO.

Dickinson, N. D.

#### RUFUS P. MORTON

Manufacturer of

CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
Correspondence Solicited.

for the work as one job or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county, if the successful bidder fails to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any and all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,

Auditor of Beltrami Co., Minn.

E. J. BOURGEOIS,

Engineer.

#### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 23, Beltrami County, Minnesota.

Notice is hereby given that the undersigned, auditor of Beltrami County, Minnesota, will on Wednesday, January 20, 1915, at 2:30 P. M., at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 23, located in Township 159-160-161, Range 33-34, one-half mile from railroad, Beltrami County, according to the plans and specifications of the engineer, now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 40.6 miles long, and the estimated number of yards of dirt to be excavated is about 316,337 cubic yards; total estimated cost of the construction of said ditch being about \$59,949.70, including highway, and clearing about 22 miles of creek. Width of base is 3 to 4 feet, and average cut is 4.6 feet. Bids will be received for the work as one job, or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county if the successful bidder fails

to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any or all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,

Auditor of Beltrami Co., Minn.

E. J. BOURGEOIS,

Engineer.

#### NOTICE TO DITCH CONTRACTORS.

Sealed proposals will be received by the County Auditors of Steele and Waseca Counties at the County Auditor's office in the City of Owatonna, Steele County, Minnesota, January 11, 1915, at 10 a. m., for completing Judicial Ditch No. 1, Steele and Waseca Counties, consisting of excavation and clean-out work, amounting to 42,000 cubic yards. Maps, plans and estimates may be seen at the office of George A. Ralph, Engineer in Charge, and at the office of the County Auditor of Steele and Waseca Counties, Minnesota.

Proposals must be made on blank forms which will be furnished by the Engineer.

Each proposal must be accompanied by a certified check for 10 per cent of the amount bid, made payable to the County Auditor, as evidence of the good faith of the bidder.

The right is reserved to reject any or all bids.

M. J. PARCHER,

County Auditor,  
Owatonna, Steele County,  
Minnesota.

THEODORE PETERSON,  
County Auditor,  
Waseca, Waseca County,  
Minnesota.

GEORGE E. RALPH,  
Engineer in Charge,  
410 Shubert Bldg.,  
St. Paul, Minnesota.

(Continued on page 16.)

### Proposal Advertisements For Bids

#### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 26, Beltrami County, Minnesota.

Notice is hereby given that the undersigned auditor of Beltrami County, Minnesota, will on Wednesday, January 20, 1915, 2:30 P. M., at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 26, located on the range line in Tps. 159 and 160, R. 31 and 32, 5½ miles southwest of Baudette and 2½ miles southeast of Pitt, Minn., Beltrami County, according to the plans and specifications of the engineer now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 16.4 miles long, and the estimated number of yards of dirt to be excavated is about 115,582 cubic yards; total estimated cost of the construction of said ditch being about \$27,645, including highway. Maximum cut 6.2 feet, average cut 4.8 feet. Bids will be received



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

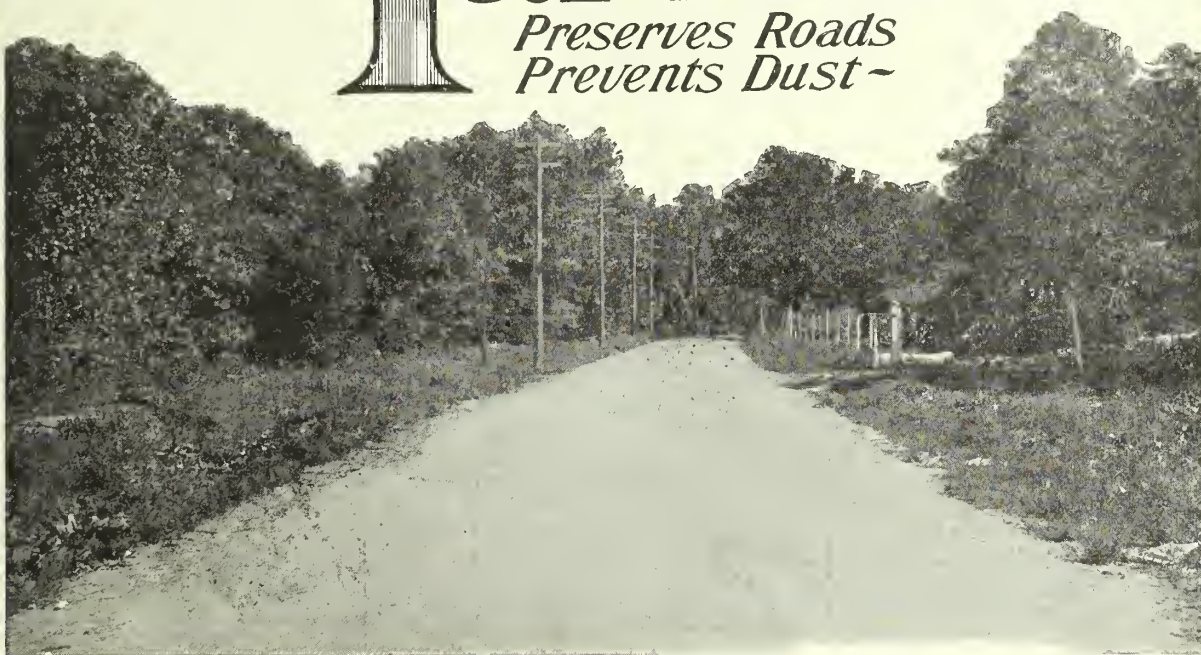
Right Here at Home—No Wait, No Worry

ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.



# Tarvia

*Preserves Roads  
Prevents Dust-*



Marshall Ave., Webster Groves, Mo.  
Treated with "Tarvia X".

## *Tarvia in Webster Groves*

**M**AYOR Biederman's satisfaction with Tarvia led him to have another mile of it laid this year. Next year we are confident he will double his mileage again, for that is the common experience in towns where Tarvia is used.

On July 7, 1914, he wrote us:

"Marshall Avenue, about one-half mile, was resurfaced last summer, using 'Tarvia X' binder, and stood the heavy hauling in great shape. This stretch of roadway includes a variety of conditions, from a pocket or low piece of land hard to drain, to a hill of 10% grade. This spring it appeared that considerable of the top dressing had disappeared and the macadam showed plainly, but with the hot weather some of the Tarvia came

to the surface and formed another covering.

"As a self-healing pavement Tarvia is great. The Marshall Avenue job I considered one of the most difficult in St. Louis County, and when I say the road withstood the exceedingly heavy traffic for one year and is today in perfect condition, without any expenditure or upkeep on it this year, I believe that statement in itself to be a recommendation for your material."

W. F. BIEDERMAN, Mayor.

Tarvia is a coal tar product of great viscosity. It bonds the stone together in a tough matrix, making the road automobile-proof, water-proof, frost-proof and free of dust. Municipal authorities and taxpayers like Tarvia because it means good roads at minimum cost.

*Booklets on request Address our nearest office.*

## BARRETT MANUFACTURING COMPANY

New York Chicago Philadelphia Boston St. Louis Cleveland Cincinnati  
Pittsburgh Detroit Birmingham Kansas City Minneapolis Salt Lake City Seattle  
THE PATERSON MFG. CO., Limited: Montreal Toronto Winnipeg Vancouver St. John, N. B. Halifax, N. S. Sydney, N. S.





**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### NOTICE.

#### Bids For Sewer System.

Sealed bids will be received by the village of Sandstone, Minnesota, until 8:00 p. m., January 18th, 1915, for the construction of a sewer system consisting of 2,748 feet of 10-inch sewer 3,422 feet of 8-inch sewer, 2,835 feet of 6-inch sewer and 34 manholes.

Plans and specifications may be seen at the office of the Improvement Bulletin, Minneapolis, Builders' Exchange, Duluth, or at the office of the Village Recorder, Sandstone, Minn.

CHRIS RUDISUHL, Vil. Recorder.

**TREASURY DEPARTMENT**, Supervising Architect's Office, Washington, D. C., December 18, 1914.—Sealed proposals will be opened in this office at 3 p. m., January 29, 1915, for the construction complete (including mechanical equip-

ment, lighting fixtures and approaches) of a one-story mezzanine and basement, stone and brick-faced building of 4,600 square feet ground area; partly fireproof construction, composition roof, for the United States postoffice at Chanute, Kans. Drawings and specifications may be obtained from the custodian at Chanute, Kans., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 28, Beltrami County, Minnesota.

Notice is hereby given that the undersigned auditor of Beltrami County, Minnesota, will on Wednesday, January 20th, 2:30 P. M., 1915, at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 28, lo-

## PROPOSALS

cated in Tps 161, R. 31-32, Tp. 162, R. 32-33, four miles west of Baudette and one Branch two miles west of Pitt, Beltrami County, according to the plans and specifications of the engineer now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 28.9 miles long, and the estimated number of yards of dirt to be excavated is about 204,618 cubic yards; total estimated cost of the construction of said ditch being about \$43,818, including highway. Maximum cut 8.2 feet, average cut 4.8 feet. Bids will be received for the work as one job or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county if the successful bidder fails to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any and all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,

Auditor of Beltrami Co., Minn.

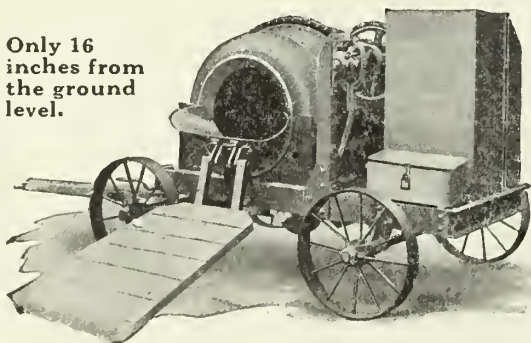
E. J. BOURGEOIS,

Engineer.

(Continued on page 18.)

## The "Wisconsin"

Only 16  
inches from  
the ground  
level.



### Low Charging Mixer

Has highest efficiency. Is lowest in price. Most compact and handy. Made for long service. Built on honor to the last bolt. Write for booklet, showing our complete line of mixers,

**Milwaukee Concrete Mixer Co.**

MILWAUKEE, WIS.

**FRANK J. ROSE, Agent**

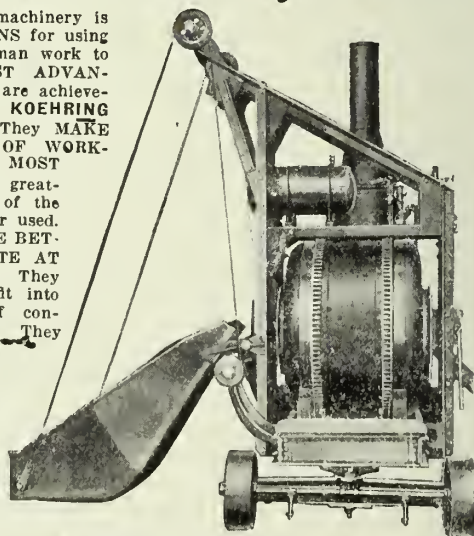
208 Corn Exchange Bldg., Minneapolis, Minn.

## Measure Value by Result

Any kind of machinery is simply a MEANS for using power and human work to the GREATEST ADVANTAGE. These are achievements of the KOEHRING MIXERS. They MAKE THE WORK OF WORKMEN COUNT MOST—they get the greatest value out of the time and power used. They PRODUCE BETTER CONCRETE AT LESS COST. They put more profit into every yard of concrete mixed. They take the guesswork away from contracts. They make each dollar invested in them COST LESS TO MAINTAIN, and therefore make each dollar EARN THE HIGHEST RATE OF INTEREST.

To do a thing well is desirable; to do it better is more desirable—and to do it BEST is MOST DESIRABLE. MIXING THE BEST, and STANDING UP UNDER THE WORK are two specialties of the Koehring.

And just because it is the Mixer that has KEPT PACE WITH THE GREATEST MECHANICAL PROGRESS, the Koehring is the kind that is sought and bought. It does its talking when it is in USE—and what is a safer standard for judging anything than USE?



## Koehring Machine Co.

Milwaukee,

Wisconsin

H. B. JONES, District Manager  
350 Security Bank Building :: :: Minneapolis, Minn.



special wood curved staircase; much of interior finish will be white enamel on birch; enclosed porches; plate and ornamental glass, five baths.

Chas. H. Johnston, architect, is preparing the sketches for the historical building, near the capitol, for which \$500,000 was appropriated. It is probable that the idea of providing quarters for the state supreme court in this building will not be carried out, and this will affect to some extent the appearance and to a large extent the interior arrangement of the new building. A design which has been submitted shows a classical building, with a wing on each end. The construction of this building, probably will not be started for several months.

The public comfort station to be built by the city in the city hall park, at Wabasha and 5th, will be 30x40, 9-foot ceiling, some kind of sanitary interior finish which may be vitrolite, reinforced concrete, slab roof, concrete stairway, marble work, plumbing, heating from central plant, attendance room; only the vent and a terrace will appear above ground; plans by the city architect; C. A. Hausler.

Two 4-room addition to Ames & Galtier schools and two 8-room buildings, McClellan and Randolph Heights, are provided for in the budget, of the educational department and Commissioner Yoerg may build by force account as well as by contract; cost of buildings, \$42,000 each; work to start early in the spring; contracts may be let before.

Association of Commerce is considering a proposition by R. N. Crawford to build a co-operative home for working girls in St. Paul; suggestion made that building cost \$500,000; co-operative rooming house; committee will be named by A. J. Krank, chairman of the advisory board, to investigate the plan.

Negotiations are under way for the sale of the Clarendon hotel property, 400 Wabasha st., owned by the Henry Hale estate and the erection of a large new building on the site. Harry Fletcher, attorney for the estate, 329½ Jackson st., got permission of the council to sell 48 feet frontage.

J. J. Vanouskor, 1091 Colne, has the contract for a modern dwelling on Geranium between Mendota and Forest, for Jno. Izybrowski, 24x36, 1½-story, concrete foundation, fireplace, beamed ceiling, tile bath, sleeping porch, electric light and gas, hot water heat, \$5,000.

The city is taking bids until 10 a. m., Jan. 4, for 1,900 stationary school desks, and 292 rears, Nos. 1, 2, 3, 4, and 5; specifications on file with city purchasing agent, City Hall; bonds for 20 per cent; check for 10 per cent.

Fred Swanstrom, 1491 Blair, is building a modern dwelling for Mr. Vick at 1815 Iglehart, near Fairview, 26x29, 2-story, frame, concrete foundation, hot water heat, sleeping porch, sun-room, tile bath, gas, laundry, \$4,000.

Annetta Lambrecht, 159 Summit, is building a flat building on Dayton between Western and Arundel, 2-story, brick veneer, 35x44, hot water heat, laundry, porches, modern, \$4,700; Frank Lambrecht, builder.

Proposed grain elevator in St. Paul for the Equity Exchange, would be similar to the Pennsylvania railroad grain elevator at Guard Point, Philadelphia; address secretary, St. Paul Association of Commerce.

The total of building permits for St. Paul in 1914 ran over \$17,000,000 last week and the permit for the Mannheimer department store to cost \$1,000,000 was not included, not having been taken out.

A new juvenile court building is under consideration and the matter is to be presented to the legislature by Ramsey county members; Rev. Father James Donohue and others interested.

Contract was awarded to the N. W. Shot & Lead Co., St. Paul, for lead and lead pipe for the city; contract for 10,000 pounds solder to Western Electric Co., at \$1,625.

Albert Bresslin, 473 Thomas, is building a modern dwelling on Edmund between Avon and Victoria, 24x26, 1½-story frame, hot water, owner builds.

E. A. Davin, 1194 Burr, is building a modern dwelling on De Sota, between Brainerd and Ivy, 24x26, 1½-story, frame, hot water heat.

## SIoux CITY, IOWA

### Building Permits.

Consumers' Ice Co., addition to business block, W. 3d st...	7,000
John A. Miller, house, 1706 Isabella st.....	2,800
Ward & Weighton, warehouse, 2d and Steuben sts.....	1,000
Sioux City Serum Co., hog shed and office, unplatted.....	5,000
August Frisch, house, 3118 Jennings st.....	2,500
Sioux City Gas & Electric Co., powerhouse, 104 S. Court st. ....	5,000

Contract for the construction of a new brick and stone building for the Citizens' Savings Bank of Ayrshire, Iowa, has been awarded to the Lytle Construction Co. of Sioux City. The building will cost \$6,500.

The state board of control has approved landscape plans on the 1,055-acre farm for epileptics near Woodward; Henry F. Liebbe, architect for the board is preparing plans for the main building.

A building permit has been issued to the Sioux City Brick & Tile Co. for the erection of a power house at an estimated cost of \$5,000.

## OMAHA, NEB.

Contract awarded to Robert Butke, low bidder for building the east wing and chapel of the Creighton working girls' home, at \$46,700; to be finished Sept. 1, 1915.

\*The Union Securities Co., newly organized, may build; capital \$600,000; Willis Todd, Edward S. Leary and Isaac E. Congdon, incorporators.

\*Bids have been taken by Daniel Gaines, owner, for remodeling interior of the Merchants' hotel; grill room, barber shop, in basement.

Awarding of contract for working girls' home was postponed on account of absence of a director; John McDonald, architect.

\*Phelan & Shirley will build at 24th and Farnam; 2-story, 50x132, business building; John McDonald, architect.

Mrs. Elizabeth Dufrene will build a brick and stucco building, 3-story and basement, 50x130, at 1812 Farnam.

Excavation will start soon on the grain exchange, 8-story; contract to Geo. Condon.

The new Omaha gun club plans a complete club house, modern.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

### Building Permits.

William Fawcett, remodeling in St. Louis hotel, W. Superior st., between 3d and 4th avs.....	2,300
E. B. Burbeck, frame dwl., Winona st., between Crescent and Allen avs.....	1,500
Miss G. Olson, frame dwl., 8th av. E. between 10th and 11th sts. ....	3,000
Mrs. J. M. Cummings, frame dwl., Nashau st. near 62d av. ....	500
Whitney Wall Co., frame pumping station, 8th av. E. near 12th st. ....	400
Dr. Carson, brick blacksmith shop, W. 2d st. near 3d st.....	2,400
Mrs. Anna Smart, frame dwl., W. Michigan st. and 26th av. ....	2,000
Refencha Building Co., frame dwl., Kenilworth Park.....	4,500
Dr. J. H. Carson, brick blacksmith shop, W. 2d st. and 3d av. ....	2,400
E. B. Burbeck, frame dwl., Winona st. and Crescent av....	1,500
William Farwell, remodeling St. Louis hotel lobby.....	2,300
F. H. Newell, frame garage, E. 5th st. and 24th av.....	2,500
Martin Nelson, frame dwl., 57th av. W. and Wadena st....	1,500
Arthur P. Paulson, frame dwl., 63d av. W. and Greene st..	2,000
Mrs. G. Olson, frame dwl., 8th av. E. and 10th st.....	3,000
J. B. Sjodin, frame dwl., W. 6th st. and 40th av.....	2,000
Merrill System Building Co., frame tenement, Jefferson st. and 17th av. E.....	8,000
H. H. Swain, frame dwl., 13th av. E. and 10th st.....	2,000
John E. Erickson, frame dwl., Columbus av. and Victoria st.	3,500
Edolf Elden, frame dwl., W. 7th st. and 39th av.....	2,000
John Nordquist, frame dwl., 13th av. E. and 6th st.....	2,500

Fire destroyed the roundhouse of the Duluth, Winnipeg & Pacific railroad.

A brighter outlook to the new year, with the assurance of extensive building in the coming spring and summer is advised by local architects and contractors. There is a fair amount of work on architects' tables, including plans now in preparation for a number of dwelling houses upon which work is to be started early in the spring. Among others are plans for three large residences to be erected in Congdon Park as soon as the frost is out of the ground next spring.

The Alliance Real Estate Co. has awarded a contract to Seymour & Co. for a modern frame house to be erected on

## FARGO, N. D.

VICTOR H. LEEBY,  
Builders' and Traders' Exchange

\*Fire destroyed the Nelson livery barn at Dazy.

\*Contract for the plumbing and wiring of the Ford automobile service building and office, was awarded to a local firm, McDermitt & Greenshields.

\*Fire destroyed an elevator at Brady's spur.



## Before The Winter Winds Come---Be Prepared

WHEN you are making final repairs for the winter, do not fail to mention LINO FELT to your customer. Put it in the walls and roof of his home, and the comfort and saving in fuel which the use of this greatest of all Cold, Heat and Sound insulations will give him, means an increase of business for you. New or Old Buildings. There is a Way. We Have It. Write today

**UNION FIBRE COMPANY, Winona, Minn.**

### Proposal Advertisements For Bids

#### NOTICE TO LIGHTING FIXTURE CONTRACTORS.

##### First:

Sealed bids will be received by the School Board of the Independent School District No. 12, St. Louis County, Minnesota, separately for the furnishing and installation of lighting fixtures in the new 24-room Grade building, up till two o'clock P. M., January 12, 1915.

##### Second:

Each bid must be accompanied by a certified check in the sum of 5 per cent of the bid, made payable to Axel Anderson, Treasurer of said Independent School District No. 12, as a guarantee that the bidder will enter into contract and give bond as required by law for the execution, if he be awarded the contract.

##### Third:

Contractors will be required to bid on blanks furnished by the Architect.

##### Fourth:

Plans and specifications can be seen on file with Thos. E. Miller, Secretary School Board, Ely, Minn., or with the Architect, C. Howard Parsons, 601 Phoenix Building.

##### Fifth:

Specification and Blueprints will be furnished by Architect on application.

##### Sixth:

Bids will be addressed to Thos. E. Miller, Secretary School Board, Ely, Minn., and endorsed on envelope, Bid for Ely, Minn., School Building, and marked according to the proposition on which bid is based.

##### Seventh:

Bids will be received on the following propositions:

(A) Furnishing of Fixtures, in good condition, delivered free in school building, Ely, Minn.

(B) Installation of fixtures ready and tested for use in School Building.

The Board reserves the right to reject any or all bids.

By Order of the Board,  
THOS. E. MILLER,  
Secretary.



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18th av. E. at 4th st. The structure which is to cost about \$7,000 will be built on plans prepared by architects, Holstead & Sullivan.

A \$100,000 summer hotel in the eastern part of town is talked of; address Real Estate Exchange.

\*Gust Lingie will build a frame dwelling at W. 6th st. and 24th av., cost \$2,500.

\*Harry Milnes is building a frame dwelling on Lake av. and 38th st., cost \$1,000.

\*Emil Olson has secured a permit for a frame dwelling, 23d av. W. and 5th st., cost \$2,000.

\*The Duluth Crushed Stone Co. is erecting a new crushing plant at 57th av. W., to cost about \$30,000.

\*The old fire hall at West Duluth has finally been sold to the D. W. & P. Ry., the consideration being \$1,100 and two lots across the street as a site for a new hall. The city stipulates that they be allowed to use the old hall for not more than two years, while the new hall is being erected and that certain fittings including radiators, jail cells, etc., be retained.

\*The general contract on the residence of Mrs. F. A. Brewer, F. G. German, architect, was awarded to Wm. Fawcett.

\*The general contract for the Pattison garage, 25th av. E. and Greysolon rd., Wm. A. Hunt, Lonsdale building, was awarded to E. C. Perry, 827 11th av. E.

\*Arthur Hanford, Sellwood building, architect, has awarded the general contract together with the heating and plumbing for a 2-story frame residence, 44th av. E. and Luverne st., to Gustafson & Olson.

#### ST. PAUL.

Bids for water meters to cost about \$20,000 for 3,000 meters have been received and the low was by Worthington Co., at \$5.10.

#### MINNEAPOLIS.

W. L. Badger, 17 S. 7th st., alterations, erecting water tank, cutting doors and windows; address owner, 300-4 Oneida building	2,000
Mrs. Ida Johnson, 3544 32d av. S., 1½-story frame dwl.; address owner, 1915 1st av. S.	2,000
Mrs. Ida Johnson, 3128 E. 36th st., 1½-story frame dwl.; address owner, 1915 1st av. S.	2,000

### SUPERIOR, WIS.

A general meeting of the members of the Superior labor unions was held at Union Labor hall on the night of Dec. 30, for the purpose of taking up the matter of building a labor temple. A meeting was held several weeks ago at which the subject was given consideration and it was then decided to defer action. It is the hope of the labormen that they can arrange for the financing of the structure and its erection during the coming year.

Co-operation of north Wisconsin counties for a tuberculosis sanitarium is urged in a pamphlet by the county board here.

A petition to pave Clough st. is being circulated.

### MILWAUKEE, WIS.

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Byron Scheiderer, architect, is engaged in making plans for the following work: 6 apartment buildings on Summit av. near Park pl., 56x81, 3-story and basement, brick and terra cotta, to cost about \$25,000; bungalow at Thiensville, Wis., frame and brick veneer, 42x40, to cost \$5,000; remodeling cottage at 4th and Locust sts., into 2-family flat. The same architect has awarded final contracts on store, flat and office building at 30th and National avs., including tile and mosaic work to U. F. Durner & Co.

H. W. Buemming, architect, 521 Jackson st., is taking bids for the erection of a \$10,000 residence, rough plaster, on Grant Blvd., near Meinecke av., 36x48, owner's name withheld; making plans for a city jail at Horicon, Wis.; awarded tile work on \$20,000 residence for Dr. O. H. Foerster to Ormsby Mantel & Grate Co.; awarded sheet metal and tile roofing on \$17,000 residence of M. D. Brennan to Hoffman & Bauer.

John Menge, Jr., architect, awarded following additional contracts on large brick stable on 16th st., near Grand av.: mason work, Chas. Brest; sheet metal, C. T. Goese; plumbing, Anton Machesky.

The contract for mason work on the \$20,000 residence and garage at Wahl av. and Park pl. for Victor Brown has been awarded to Chas. Grunewald by Alex C. Eschweiler, architect.

### PUBLIC BUILDINGS

**Ill., Rock Island**—Board of supervisors about to name a building committee to have charge of proposed \$75,000 county jail building; address county clerk.

**Iowa, Hawarden**—A city hall will be erected here; address city clerk.

**Mich., Houghton**—Various sites investigated by inspectors for \$100,000 government building.

**Minn., Hibbing**—Six architects have presented tentative plans for proposed court house; cost ranging from \$65,000 to \$175,000; no decision; D. D. Haley, village clerk.

**Minn., Hibbing**—Architects presenting their views before the council on the proposed municipal building are: Dave Gorman, Virginia, estimating the cost at \$175,000; Erwin Price, Duluth, at between \$90,000 and \$110,000; Holstead & Sullivan, Duluth, \$85,000; Arthur Starin, Duluth, \$75,000; H. Puck of Hibbing had neither plans or specifications but asked that he be given consideration when the council came to deciding on an architect; all fixed their fees at 5 per cent; D. D. Haley, village recorder.

**Minn., Mountain Iron**—City council is considering the building of a village hall to replace the one recently burned.

**Mont., Billings**—Preliminary plans under way for a fire station which will probably be built early in the spring; address city clerk.

**Mont., Deer Lodge**—Bonds have been voted for an \$100,000 court house building and plans will be prepared by Link & Haire, architects, Billings and Helena.

**Mont., Manhattan**—City council has been discussing the erection of a new town jail building; probably will be built, but no decision yet; address city clerk.

**Mont., Ryegate**—Petition in circulation for substantial jail building; address county clerk.

**Mont., Superior**—Low bidder for the jail building in Mineral county was H. F. Harrington, Missoula, at \$4,804; other bidders being Olsen & Johnson, Missoula, \$6,200; Avron C. Bennett, city, \$7,900; David Graham, Missoula, \$5,385; C. H. Finley, Missoula, \$6,442.

**Neb., Hastings**—Plans being drawn for proposed armory, 3d st. and Burlington av.

**Neb., Leshara**—Bonds carried at the special election on the proposition for a new town hall; address city clerk.

**Neb., Lincoln**—State Engineer Price is figuring on the expense of connecting the five state institutions here with an electric plant to be built on the Blue river, 18 miles distant; a 20-foot dam would provide 1,200 h. p. or more.

**Neb., Red Cloud**—A cement building is to be put up for the fire department; address city clerk.

**Ore., Marshfield**—Proposition to issue bonds for \$30,000 for erection of city hall will be submitted to voters shortly; address city clerk.

**Ore., Sheridan**—Bonds for \$6,000 voted for city hall; address city clerk.

**Wash., Spokane**—Comfort station in N. P. grade separation structure estimated by Morton McCartney, city engineer, to cost \$2,500.

**Wash., Walla Walla**—County commissioners will tear down old court house and build new one to cost not to exceed \$150,000; Henry Osterman, architect, city, preparing plans.

**Wis., Green Lake**—Sum of \$2,500 has been appropriated for repairs to county buildings; Samuel Owens, county clerk.

**Wis., Hudson**—St. Croix county will build an addition to the county jail; H. S. Offerdahl, county clerk.

**Wis., Jefferson**—John W. Porter, chairman, special committee, Cambridge, has reported to state board of control at Madison on remodeling of the county jail; architect will be selected.

**Wis., Madison**—Public spirited citizens are at work on plans for an auditorium; definite plans will be referred to the council when completed; address city clerk.

**Wis., Monroe**—Plans being made by A. F. Rote, Monroe, for an addition, 24x56, to city hall; also, 2 vaults, filing vault, cells; cost to be about \$5,000; F. W. Wettengel, chairman.

#### BIDS WANTED.

**Kan., Leavenworth**—Bids received by construction quartermaster, Fort Leavenworth, Kan., until Jan. 11, for library for army service school; 55x100, 2-story and basement, \$60,000;



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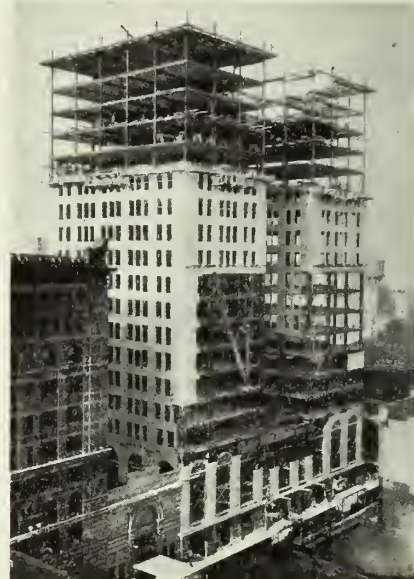
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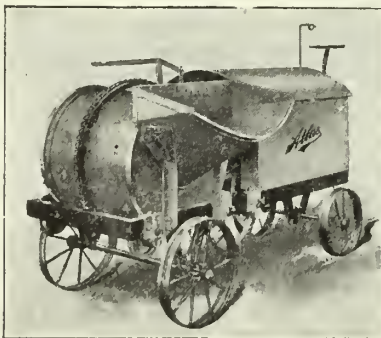
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\***Okla., Fort Reno**—Bids received by Capt. W. S. Valentine, Q. M. C., until noon, Jan. 18, for lumber, hardware, etc., required for Riding H. Hall.

**Okla., Oklahoma City**—Bids received by W. B. Anthony, chairman, committee, until 11 a. m., Jan. 16, for material for use in concrete frames of state capitol, separate proposals on following material: 8,000 cubic yards rock; 4,000 cubic yards sand; 13,500 barrels cement; 500,000 board measure lumber; 850 tons reinforced steel as per plans.

**Okla., Oklahoma City**—Bids received by W. B. Anthony, chairman committee, on construction and mechanical equipment of the Oklahoma state capital building, until 2 p. m., Jan. 14; plans and specifications at office of Layton & Smith, architects, Majestic building, Oklahoma City, on deposit check of \$250; bids opened on following sub-contracts: reinforced concrete and rough carpenter work, cement floors, concrete filling, water proofing, brick and stone work, structural steel and iron work, refrigerating and sheet metal work, ornamental and miscellaneous iron work, hollow tile partitions, plaster, interior marble and terrazzo, hollow metal doors and trim, mail chute, painting, glazing, hardware, plumbing, drain, heating, ventilating, vacuum system, electrical conduits, wiring, elevators, etc.; each bid to be accompanied by certified check for sum 5 per cent of amount bid.

**Wash., Okanogan**—Bids received by F. A. Granger, county auditor, until Jan. 6, for court house building; 2-story and basement, tile and reinforced concrete; plans on deposit of \$25 from Geo. H. Keith, architect, city.

**Wis., Milwaukee**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., Jan. 22, for installation complete of an electric elevator in the U. S. appraiser's stores at Milwaukee.

**Wash., Okanogan**—Bids received by county commissioners until Jan. 6, for erecting a court house; probable cost, \$50,000.

#### CONTRACTS AWARDED.

**Iowa, Corning**—Contract to A. E. Chaffee for Adams county court house at \$28,183; 3-story, brick and stone; other bidders were: Herman & Brown, O. J. King, P. H. Wind, Richards & Co., and Ino. C. Woodruff.

**Mich., Ishpeming**—Contract to Defold & Co., Pittsburgh, for new post office building.

**Mich., Macinac Island**—Contract to J. C. Jensen, 1836 Asylum av., Racine, for life saving station, at \$19,300.

\***Mont., Butte**—Contract to M. G. O'Connell for repairs to U. S. public building.

**Neb., Geneva**—Contract to L. L. Fisher, city, for city hall at \$14,475; plumbing contract to F. B. Bentley, city, at \$1,942; other bidders on the building were: Geo. F. Johnson, Central City, \$14,529; H. E. Woods, Aurora, \$14,625; Olson & Son, David city, \$14,920; J. P. Riddle, Creighton, \$15,665; Cikal & Neptune, Lincoln, \$15,720; Assenmacher & Co., Lincoln, \$15,957; Hanson & Nielson, Lincoln, \$16,600; Gooden & Ostran, Lincoln, \$16,264; T. A. Johnson, Fairbury, \$17,084; Scott Bros., Concordia, Kans., \$17,139; Gould & Son, Omaha, \$17,775.

**Neb., Omaha**—Contract to Dan Whitney for installation of a device in city hall to eliminate smoke nuisance, at \$3,000.

**N. D., Mandan**—Contract to G. W. Stiles Construction Co., Chicago, for Mandan post office at \$46,445; limestone and granite, first floor fireproof; plate glass instead of sheet glass, terrazzo floors.

**N. D., Stanley**—Contract to Acme Chandelier Co., Chicago, for electric work in the court house at \$1,500; other bidders were: Champlin & Nansen Co., Fargo, N. D., \$1,500; Julius Andrae & Sons, Milwaukee, Wis., \$1,475; Richardson Electric Co., Duluth, Minn., \$1,500; Stanley Electric Co., Stanley, N. D., \$1,417; contract for furniture to Wallager Manufacturing Co., Milwaukee, Wis., at \$4,546; decorating to Abel-Pedersen Co., Sioux City, Iowa, at \$1,500, the only other bidder being the Minot Decorating Co., Minot, at \$1,500.

**Wash., Fort Angeles**—Contract for steel vault and wooden office furniture for court house to Pioneer Bindery & Printing Co., Tacoma, at \$8,879; Francis W. Gant, Mehlborn building, architect.

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

**Ida., Nez Perce**—Nez Perce Motel Co. will be incorporated with a capital of \$14,000, to erect modern hotel building; L. N. Swift, chairman board of directors.

**Iowa, Sioux City**—Geo. C. Call announces he will build a \$60,000 addition to the Hotel Jackson; plans completed, contract will be awarded soon; 4-story and fireproof.

**Minn., Albert Lea**—Preliminary steps taken by physicians of Steele, Dodge, Freeborn and Mower counties for building of a jointly owned tuberculosis sanitarium; meeting held at Austin and committee appointed, composed of J. W. Andrist, Robinson Bosworth and E. C. Redman.

**Mont., Garneill**—Hotel building burned, partially insured.

**Mont., Gregson**—Dance hall owned by Hugh Daly burned; loss \$45,000; about half insured; 40 of the 100 rooms in the hotel were ruined.

**Okla., Oklahoma City**—Plans in preparation for a hospital building owned by the Baptist Hospital association; approximate cost \$25,000; 3-story and basement, fireproof, brick, stone, cement, terra cotta, etc., heating, light and plumbing.

**Ore., Astoria**—Fire destroyed building occupied by Leude hotel.

**Ore., Bend**—Grand restaurant and lodging house burned; Ole Erickson, owner; loss, \$3,000, insurance, \$2,000.

**Wash., Centralia**—Moore Bros. cafe and W. G. Rogers' rooming house burned; loss \$3,000.

**Wash., Centralia**—Robinson Bros. considering construction of 50-foot addition to Wilson hotel.

**Wash., Olympia**—Plans for 7-story hotel building at 6th and Franklin sts. for Olympia Hotel Co. will be prepared by V. W. Voorhees, architect, Eitel building, Seattle, estimated cost \$100,000.

**Wyo., Cody**—A sanatorium will be built at DeMairs Springs, near here, at a cost of \$50,000. Address the mayor of Cody for information.

#### BIDS WANTED.

**Ore., North Bend**—Bids will be taken soon by J. M. Tourtellotte, architect, Rothschild building, Portland, for hotel for North Bend Hotel Co., Inc.; estimated cost, \$100,000; separate bids for heating, plumbing, electric wiring, painting, elevator, plaster and other work; carpentry work by day labor.

**Wis., Stevens Point**—Bids received by Frank Clalenka, architect, city, after Jan. 2, for the erection of the \$15,000 orphanage asylum for the Felician sisterhood at Polonia, near Stevens Point; brick construction, 2-story and basement, 67x 100.

#### CONTRACTS AWARDED.

**Neb., Omaha**—Contract to Wm. Deverill for house of the Good Shepherd; owned by Catholics; approximate cost, \$100,000; brick, cement, stone, steel, hardwood, etc.; contractor buying material.

## THEATRES AND HALLS

**Iowa, Marshalltown**—Elks have purchased site and will build \$75,000 club house; Martin Johnson, exalted ruler.

**Iowa, Mason City**—Specifications accepted for modern club house for the Mason City Country club, 2-story; Green & Wicks, architects, Buffalo, N. Y.

**Iowa, North English**—Orpheum theater burned; loss, \$7,000, insured for \$4,000; building was frame with steel siding and steel roof; Mr. Hadley, owner.

**Iowa, Shelby**—Preliminary plans under way for an opera house to be owned by the Shelby Opera House Co.; cost probably \$6,000 to \$10,000.

**Minn., Hibbing**—Elk building committee negotiating for site for Elks' club house; Thos. J. Godfrey, chairman.

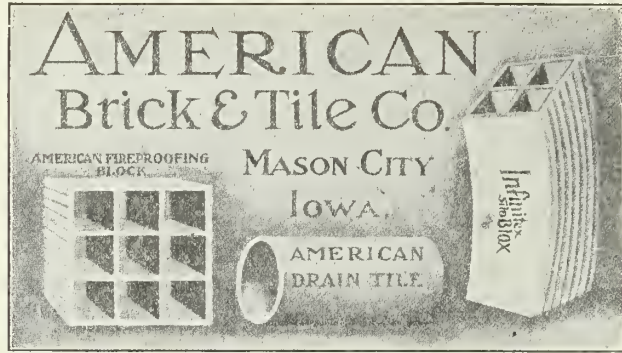
**Minn., Minneapolis**—Zurah Temple of the Mystic Shrine has voted to build during 1915; Frank H. Forbes, recorder.

\***Mo., Kansas City**—Plans just completed, owner will take bids, on 11-story hotel; cost \$500,000; C. H. & Elmer Williams, owners, 815 Glen Airy pl.

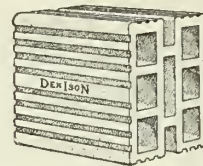
**Mont., Hardin**—E. L. Jones planning modern building for theater.

**Neb., Crete**—Prospects for an early start in the spring on





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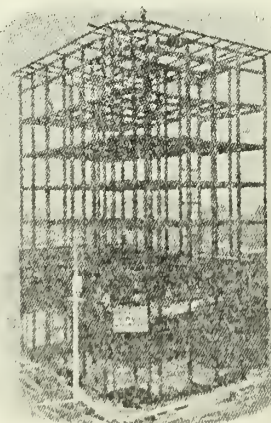
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the building of the new hall of the Tel Jed Sokols; John C. Nespor, president.

**Ore., Eugene**—The order of Moose contemplate building lodge home; M. Vernon Parsons chairman committee having matter in hand.

**Ore., Portland**—F. E. Bowman & Co., architects and builders, Commercial club building, will build 1-story structure, hollow tile and concrete, semi-fireproof, at cost of \$6,000, for a moving picture theater and stores.

**S. D., Hamill**—A town hall is to be built here. Address secretary, Pioneer Art club.

**S. D., Sioux Falls**—Plans being drawn for club building for the Elks; 3-story, cost \$75,000; cream colored brick with stone trimmings; address the secretary.

**Wash., Seattle**—Pledges being taken for new building for Commercial Club; cost, \$50,000. Plans drawn and construction to begin probably within a month. Address secretary of club.

**\*Wis., Antigo**—Anderson & Williams, architects, Wilner building, Green Bay, Wis., have been selected to prepare plans for the theater to be built by P. J. Hanson & Son, city; 45x160, 1½-story, \$25,000.

**Wis., Fond du Lac**—New stage, new front and modern interior, proposed for Bijou vaudeville and picture theater, seating for 900 to 1,000; W. E. Smith, new manager.

**Wis., Hartford**—Building of an opera house and saloon is contemplated by Mrs. Louise Gelhaar, 2013 Wells st., Milwaukee; 2-story and basement, \$12,000.

**Wis., Kenosha**—Plans being prepared by Howard H. Hahn, architect, for a \$15,000 club house for the Men's club of St. Matthews' parish; 2-story, brick veneer, gymnasium, baths, etc.; bids will be taken about March 1.

**Wis., Madison**—President C. R. Van Hise of the university of Wisconsin has recommended to the board of regents that \$53,500 be expended for the erection of a new grandstand, with a seating capacity of 10,000, on the athletic grounds.

**\*Wis., Menasha**—Frank Winarski contemplates building a picture theater in the spring; 45x120, \$10,000.

**Wis., Racine**—Building committee of the Kenosha aerie of the fraternal order of Eagles have accepted plans and specifications as prepared by Jos. Lindl, and work on the new building will be started in the early spring.

**\*Wis., Two Rivers**—The Modern Woodmen contemplate building a lodge hall in the spring to cost \$12,000; N. E. Nash, president.

#### BIDS WANTED.

**Wis., Racine**—Bids will be taken, beginning about Jan. 2, by board of directors for Y. M. C. A. building, plans for which have been completed by C. D. McLane, architect, Rock Island, Ill., with Gilbert & Funston, architects, Racine, as associates; brick and concrete, 6-story and basement, 175x130, \$175,000; 100 sleeping rooms, swimming pool, gymnasium, etc.

#### CONTRACTS AWARDED.

**Mont., Edgar**—Contract to J. M. Holden, Gromberg, for opera house to be built by Ayer Mercantile Co.

have taken action lately for the building of a men's dormitory; cost \$100,000.

**Minn., Osakis**—Bids received by W. A. Yates, president, school board, until Jan. 7, for a high school building; 119x109, 2-story and basement; Kirby T. Snyder, architect, Plymouth building, Minneapolis, Minn.

**Mont., Reedpoint**—F. H. Mehlberg is arranging for building a new school house in district 24, of Sweetgrass county and district 28 of Stillwater county, a joint district; building to cost \$1,500.

**Mont., Superior**—A new school district has been created at Rivulet and a room in the Sonosser hotel will be fitted up for school room this winter, and a modern school building will be erected in the spring; address clerk, school board.

**Mont., Three Forks**—Bids will be received until Jan. 23, for purchase of \$1,200 school bonds for erection of a school in district No. 20, Jefferson county; Dick D. Fabrick, clerk.

**Mont., Vanada**—Trustees of local school district are advertising for bids for erection of two frame school buildings.

**Neb., Campbell**—Plans by W. C. Way Co. of Hastings, completed for new school building to cost \$16,000; 60x79, faced with pressed brick, Bedford stone trim.

**Neb., North Platte**—School board is considering new school building; address secretary school board.

**N. D., Grand Forks**—Fire destroyed the school house in district No. 77, Walle township.

**S. D., Rockham**—Special election was favorable for issuance of bonds in sum of \$12,000 for new public school building; site also decided; address secretary board.

**S. D., Sisseton**—Fire destroyed the school house in the A. K. Eggen district; loss about \$2,000; insured.

**Wis., Fall River**—Low bidders on the new public school building are as follows: general contract, Jno. Schneiberg, Beloit, Wis., \$16,990; heating, Thomas Heating Co., Racine, Wis., \$2,835; plumbing, Kirchbuch & Co., Columbus, Wis., \$1,260; electrical, Fall River Heating & Power Co., \$365; Viola Hains, clerk.

**Wis., Jefferson**—Architects Brust & Phillips, Free Press building, Milwaukee, are preparing plans for erection of a dormitory and school for St. Coletta's school; Mother Emerentia in charge; brick, cost \$45,000.

**Wis., Kenosha**—Carsley & Inman, architects, have completed plans for an open air school, of stucco, tile or frame, 38x53, 2-story, cost about \$10,000; bids will be taken by Geo. Wallis, chairman building committee, until Jan. 12, will contain manual training department.

**Wis., Monroe**—Plans held up on 6-room school and gymnasium building; probably will not be ready before next summer; F. J. Bolender, president board.

**Wis., Oshkosh**—Van Ryn & DeGelleke, architects, Milwaukee, Wis., are about to submit complete plans to the state board of normal regents, Wm. Kittle, Madison, Wis., secretary, for the proposed new normal school at Oshkosh, Wis., to cost \$100,000; brick and concrete, 3-story, 44x364; bids will be taken about March 1. Same architects are working on plans for a dormitory addition to the normal school at Stevens Point, Wis., to cost \$80,000 and be 80x160 in size, 3-story, of brick, stone and reinforced concrete; bids later in the new year.

#### BIDS WANTED.

**Iowa, Burlington**—Bids will be received until 1 p. m., Jan. 20, for erection of school in Concordia township at Park site, Des Moines county; plans at office of county superintendent, Burlington; Lyman Roth, secretary.

**Iowa, Sioux Rapids**—Bids received by J. O. Osmundson, secretary, consolidated Indian school district, until 1 p. m., Jan. 7, for erection of school house.

**\*Minn., Ely**—Bids received by Thos. E. Miller, secretary school board, until 2 p. m., Jan. 12, for furnishing and installation of lighting fixtures in school building. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., St. Paul**—Bids received by August Hohenstein, purchasing agent, until 10 a. m., Jan. 4, for 1,900 stationary school desks and 202 rears, Nos. 1, 2, 3, 4 and 5; check for 10 per cent.

**Mont., Lake Basin**—Bids will be received until Jan. 16, for erection of two schools in district No. 32, Stillwater county; plans with county superintendent; check 10 per cent; O. M. Gudmunsen, clerk.

#### CONTRACTS AWARDED.

**Mont., Evans**—Contract awarded to F. A. Robbins of Stockett, Mont., for school in Cascade district 83, at \$449; other

## SCHOOLS

**Idaho, Pocatello**—Special election will be held Jan. 2, 1915, to vote \$175,000 bonds for erection of a high school building. Ezra J. Merrill, clerk and O. B. Steely, chairman, board of education.

**Idaho, Shelley**—Architect Jno. Visser of Boise has been selected to prepare plans for a school, \$30,000 bonds sold.

**Iowa, Britt**—Vote for new school building bonds were defeated.

**Iowa, Colesburg**—Final details for school house; plans for which were prepared in Waterloo, are being made by A. H. Wessel.

**Iowa, Winthrop**—The public school building burned; 6-room, brick.

**Iowa, Winthrop**—A new school building will be erected to take the place of the one recently burned; address secretary board.

**Mich., Michigamme**—Bids received by G. J. Schwendeman, secretary board of education, until 2 p. m., Dec. 29, for a high and grade school building; plans by Derrick Hubert, Spies building, Menominee, Mich.; check for 2 per cent.

**Minn., Northfield**—Board of trustees of Carleton college

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bidders were: A. E. Williams, Great Falls, Mont., \$685; J. Danson, Great Falls, \$627; G. E. Blanvett, \$1,250; J. Christison, \$900; Hinkle & Melin, \$687; B. H. Swart, all of Great Falls, \$850.

## MILLS AND FACTORIES

**Alta., Cardston**—The Ellison Milling Co., Ltd., Raymond, Alta., plans to enlarge its flour mill here; J. E. Ellison, Cardston, president.

**Idaho, Payette**—Several business men and farmers of this vicinity are discussing advisability of establishing a co-operative creamery here.

**Idaho, St. Maries**—Articles of incorporation filed for the Modern Box Manufacturing Co.; will erect a new factory here; capital \$60,000; address secretary, Geo. Stoll, of local Commercial club.

**Iowa, Cedar Rapids**—Chas. P. Hubbard, local ice king, will erect an artificial ice house and cold storage warehouse; cost about \$150,000.

**Iowa, Farragut**—Plans are being made by the Farragut Light & Power Co. for installation of a 3-ton ice manufacturing plant.

**Iowa, Keokuk**—Work will start on the buildings of the Johnson Electric Smelting Co. about the first of March; T. F. Hudson, representative.

**Iowa, Marshalltown**—Fire damaged the plant of the Times-Republican Co. about \$1,000.

**Mich., Kalamazoo**—The Kalamazoo Vegetable Parchment Co. will erect a 70x327 plant here.

**Mich., Menominee**—A potash factory will be established here by the Jones-Bradley Co. of Wausau, Wis., and Mosinee, Wis., main building, 30x100, and power plant, 20x20.

**Minn., Fairfax**—The Standard Oil Co. will build a storage plant here.

**Minn., Mankato**—The Hubbard Milling Co. has let contract for seven more steel tanks; cost about \$20,000; Geo. M. Palmer, president.

**Mont., Bozeman**—P. O. Duclos of Little Falls, Minn., will open a brick manufacturing plant here soon.

**Mont., Helena**—Articles of incorporation filed for the Domestic Steam Laundry Co. of Lewistown, capital \$15,000; C. E. Copeland, P. P. Halpin and Ralph J. Anderson, directors.

**Mont., Twin Bridges**—Steps are being taken for installation of a modern packing plant here; J. J. McHatton of Butte, interested.

**Neb., Crete**—The creamery is making improvements to its plant.

**Neb., Lincoln**—A 4-story, 60x100 factory will be erected here by the Curtis Towel & Paine Co.

**N. D., Bluegrass**—Contract awarded to Wm. Buchmann for erection of new creamery.

**N. D., Kenmare**—Wm. Jones of Chicago, Ill., will open a branch house of E. M. Davis Soap Co. in near future.

**Wis., Appleton**—The Fox River Paper Co. has engaged T. W. Orbison, 800 College av., architect and engineer, to make plans and supervise construction of a 2-story office and warehouse building, 40x100, fireproof; W. C. Wing, manager.

**Wis., Appleton**—The Appleton Shirt & Pants Co. may build a factory here in 1915.

**Wis., Baldwin**—A. B. Miller will open a plant for manufacture of dry-cleaning and dyeing machinery, under the name of Baldwin Cleaning Machinery Co., capital \$10,000.

**Wis., Beaver Dam**—The Weyenberg Shoe Manufacturing Co. are in the market for shafting and hangers, 15 motors, (60 h. p.) for branch shoe factory, which will be opened here Jan. 15; Geo. J. Daniels, secretary, Beaver Dam; elevator contract let Dec. 8, to S. Heller, Milwaukee.

**Wis., Cudahy**—The Federal Rubber Manufacturing Co., Milwaukee county, Wis., is having plans prepared for a wing addition, 44x125, 3-story, brick and mill construction, for tire manufacturing, part of \$500,000 improvement project instituted on Aug. 1, 1914, and to be carried through twelve month's time.

**Wis., Madison**—Plans are being discussed for erection of a farmers' packing plant, similar to the one in La Crosse.

**Wis., Marshfield**—The Marshfield Brewing Co. plans extensive improvements to its plant; solid brick, building 30x60, 1-story and basement.

**Wis., Marshfield**—The Marshfield Brewing Co., Louis Hartl,

president, is preparing to erect a new bottling house, 30x60, to be ready May 1; plans now being prepared.

**Wis., Milwaukee**—The Davis Manufacturing Co., gasoline engines, tractors, etc., has directed its architects, to proceed with the plans and award contracts for its new plant at 50th av. and Burnham st., West Allis, Milwaukee county; main building, 250x290, 1-story, sawtooth roof.

**Wis., Milwaukee**—The Vilter Manufacturing Co., Milwaukee, has been awarded the contract for three large refrigerating units for installation in new municipal docks at Seattle, Wash. Cost \$50,000.

**Wis., Neenah**—The warehouse of the Jesild Knitting Co. burned; loss about \$40,000.

**Wis., Waupaca**—The Waupaca Sand & Gravel Co. will erect a concrete sewer pipe and drain tile factory, 150x50, with curing chambers, in market for concrete mixer, 40 h. p. motor or gasoline engine. reinforcing material for large pipe, coloring and waterproofing material.

**Wis., Wausau**—The Farmers' Co-operative Packing Co. will erect a packing plant in the spring; brick and concrete, 2-story and 3-story; cost \$100,000; will retain architect to go over plans made by government; ammonia refrigerator.

## CHURCHES

**S. D., Castlewood**—Plans approved for a new Presbyterian church and contract let to a construction firm from Sioux City, Iowa; cost, \$12,000.

**Wis., Green Bay**—The First Presbyterian church, Rev. H. W. Knox, pastor, 210 Ashland av., contemplates building an addition for Sunday school purposes.

**Wis., Milwaukee**—Hope Lutheran congregation, (English) has decided to build a new edifice to cost \$40,000; architect not yet selected; Rev. Jno. Schmidt, pastor.

**Wis., Neenah**—William Waters, architect, Oshkosh, Wis., is completing plans for a \$17,000 church building for the English Lutheran congregation; Rev. A. J. Sommers, pastor; brick and steel, 44x67; bids taken about Feb. 1.

**Wis., Seymour**—According to reports, work will begin early in the spring on a new \$15,000 German Lutheran church; plans by Anderson & Williams, architects, Green Bay; seating capacity, 550. E. M. Huth, chairman, building committee.

### BIDS WANTED.

**Wis., Duck Creek**—Bids received about Jan. 15 by Rev. N. Hunold, pastor, route 9, Green Bay, Wis., for a church building owned by St. John's church. Foeller & Schober, architects, Fox block, Green Bay. Stone, 52x110, \$19,000; seating capacity, 400.

**Wis., Green Bay**—Foeller & Schober, architects, Green Bay, Wis., completing plans and intend to take bids after Jan. 4 for the erection of a \$20,000 church building for the Evangelical Lutheran Church of St. John the Baptist at Duck Creek, Brown county, Wis.; brick and stone, 120x52 feet, with a seating capacity of 600.

## ELEVATORS

**Ill., Chicago**—The largest grain elevator in the world will be erected by the Armour Grain Co. on the Calumet river, first section will have capacity of 3,000,000 bushels; Geo. E. Marcy, president of company.

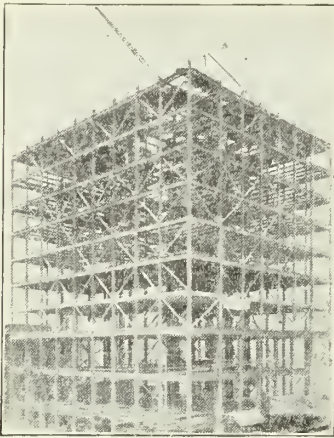
**Iowa, Nevada**—Farmers have organized a company and may buy or build an elevator; Jack Moran, Vint Applegate, G. S. Nelson and others directors.

**Iowa, Sioux Rapids**—Fire destroyed the elevator of the L. J. Button Elevator Co., insured.

**Minn., Hendricks**—Fire destroyed the Farmers' Co-operative Elevator here, insured.

**Minn., Minneapolis**—Barnett-McQueen Co., Ltd., Minneapolis and Fort William, Ont., have been awarded the contract recently for the erection of a large grain elevator at Vancouver, B. C. for the Dominion grain commissioners, (says Engineering & Contracting); fireproof; working elevator of approximately 350,000 bushels capacity and a storage elevator of about 950,000 bushels capacity; working house on a concrete foundation extending to rock; superstructure will be entirely of reinforced concrete frame work with brick panel walls; track shed will be of reinforced concrete throughout; nine receiving pits; three tracks; storage structure also reinforced concrete throughout; sacking plant built of reinforced concrete, a transformer house and office; approximately 2,200 lineal feet of double belt conveyor gallery.





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**Minn., Willmar**—North Dakota has appropriated \$50,000 for terminal elevator.

**N. D., Fargo**—Fire destroyed the elevator at Brady's spur.

**N. D., New England**—The Regent & Bagley elevators burned; loss about \$35,000.

## RESIDENCES

**Colo., Greeley**—W. A. Miner will erect a frame dwelling, cost \$4,000; permit issued.

**Iowa, Algona**—I. G. Vincent is erecting a dwelling.

**Iowa, Audubon**—J. T. Settlemire will erect a dwelling in the near future.

**Iowa, Cedar Falls**—E. H. Wilson is erecting a dwelling.

**Iowa, Council Bluffs**—Permit issued to Fred Heaton for erection of modern frame dwelling; cost \$2,000.

**Iowa, Linn Grove**—C. L. Brekka is contemplating the construction of a dwelling.

**Iowa, Marion**—C. Q. Wilson is erecting a bungalow; Geo. Hunter is building a modern house.

**Iowa, Odebolt**—Nick Wunschell is building a farm residence.

**Iowa, Toronto**—J. G. Bielenberg will erect a dwelling at once.

**Iowa, Wall Lake**—Geo. Wells has foundation in for a dwelling.

**Man., Winnipeg**—E. D. Tuttle, architect, 705 MacArthur building, is preparing plans for a \$10,000 residence.

**Mich., Iron River**—Marlof & Oberg will build modern flats on top floor of business building; plans by architects Smith & Anderson; 3 and 4-room suites, bath.

**Minn., Albert Lea**—Fire destroyed the "Villa" a 4-apartment house, on Lake blvd.. Mrs. F. A. Snow, owner.

**Minn., Redwood Falls**—Fire destroyed the residence of Casper Green; loss \$5,000; partially insured; will rebuild at once.

**Mont., Judith Gap**—A. M. Taylor, contractor, will build a dwelling soon; has built several recently.

**Mont., Three Forks**—Miss Erma Wagner has let contract for a dwelling, concrete, 24x24, 3-room; Mr. Plett in charge.

**Neb., Blair**—Carl Koltermann will erect a dwelling in the spring.

**Neb., Cook**—Chas. Fowler will erect a modern bungalow, 35½x41; work to commence at once.

**Neb., Cornlea**—Chas. Kosial is erecting a dwelling.

**Neb., Dunbar**—F. B. Westcott will build a modern bungalow.

**Neb., Fairmont**—Jacob Kelch will build a dwelling on his farm west of town.

**Neb., Florence**—Niels Poulsen, Lyons, Neb., will build a dwelling here in the spring.

**Neb., Long Pine**—Wm. Kuhl is building a dwelling.

**Neb., Omaha**—Bids are being taken by Hiatt Fairfield, owner, 230 Omaha National Bank building, for a residence, 1½-story, 23x35; cost \$2,700; plans by Richard Everett, architect, Brandeis Theater building, Omaha.

**Neb., Omaha**—Plans have been drawn by architect Richard Everett, Brandeis Theater building, Omaha, for a 1½-story residence for Albert O. Jensen, 352 Bee building, day work, 24x36; cost \$2,200.

**Neb., Omaha**—Louis Nash will repair residence after fire; brick, \$10,000.

**Neb., Plainview**—Arthur Gaddis will begin the construction of a dwelling soon.

**S. D., Aberdeen**—Fire destroyed the residence of Mrs. E. G. Gregory; loss about \$2,000, insured.

**S. D., Artesian**—Peterson & Creighton are building a 28x30 residence on the Ole Larson farm.

**S. D., Estelline**—A. B. Calef is building a residence.

**S. D., Howard**—Lew Coppersmith has the contract for the construction of a dwelling for Geo. Foreman.

**S. D., Viborg**—Jens Johanson plans to build a dwelling house in the spring.

**Wash., Tacoma**—Herman Johnson, Tacoma, will build a four-flat, 2-story, frame, at 1422 S. 12th; \$6,500.

**Wis., Merrill**—Residence and garage, 2-story and basement, 33x100, \$15,000, is being planned by Chromaster, Speer & Swarthout, architects, Wausau, Wis., for Fred King, Merrill; owner will take bids in spring; brick, shingle roof.

**Wis., Merrill**—Residence, 2-story and basement, \$4,000, plans by Chromaster, Speer & Swarthout, Wausau, Wis., will be built by R. C. Balstadt; plans in progress.

**Wis., Merrill**—Residence, 2-story, 30x32, \$4,000, plans by Chromaster, Speer & Swarthout, Wausau, Wis., will be built by F. W. Kubasta, Merrill, in spring.

**Wis., Phillips**—Alfred C. Clas, architect, Milwaukee, has completed plans for 20 small residences to be built at Luger-

ville, near here, by the Kneeland-McClurg Lumber Co., Milwaukee, for employes; frame, 1½-story and 2-story, 25x30; cost \$2,500 each.

**Wis., Wausau**—Two-story residence, 28x45, \$7,000, plans by Chromaster, Speer & Swarthout, will be built by Chester Glass. Plans in progress; frame and stucco, shingle roof, stone foundation.

## ELECTRICAL

*Notes arranged alphabetically by States.*

**Iowa, Des Moines**—The Continental Gas & Electric Corporation of Cleveland, Ohio, will soon submit to the council a draft of a franchise for the erection and maintenance of a central heating and lighting plant in Des Moines; C. H. Abbott, Cleveland, engineer of corporation.

**Kans., Columbus**—Installation of an electrical system is under consideration.

**Kans., Muscotah**—City of Muscotah is considering installation of a municipal electrical plant; cost \$7,000.

**Mich., Calumet**—Contract awarded to the Houghton County Electric Light Co. for installation of six 60-watt tungsten street lights in Osceola township.

**Minn., Grey Eagle**—Subscriptions to extent of \$9,500 were completed for erection of the Electric Short Line Railway, survey to be made within 30 days.

**Minn., Hibbing**—The Mesaba Telephone Co. will build a \$20,000 central building at 315 Washington st. this winter; F. A. Day, manager, 55x45; fireproof, modern.

**Minn., Lamberton**—The new electric light plant here has been purchased by Wherland Bros. of Redwood Falls.

**Minn., Mapleton**—C. L. Sellers, owner of the electric light plant, plans to erect about 10 miles of transmission line and to purchase transformers, lightning arresters, insulators and wire for above line, and about 125 meters and also a general supply of electrical appliances, including cooking apparatus, vacuum cleaners and washing machines, wiring supplies and switches, within the next four months.

**Minn., Windom**—At special election citizens voted 4 per cent bonds to state for rebuilding their electric light plant.

**Neb., Grand Island**—The Grand Island Electric Co. plans within the next 10 months to construction a diverting dam and power house for generating apparatus of about 2,500 k. w.; also purchase a 750-k. w. steam-driven generating unit and a 2,500 k. w. hydraulically driven generating unit and material for approximately 100 miles of transmission line; T. H. Fritts, general manager.

**N. D., Grand**—Business men of city are considering installing an electric light system.

**N. D., Jamestown**—Board of county commissioners have accepted bid of Western Electric Co. to extend lines and poles for lighting buildings of county poor farm.

**N. D., Russell**—Installation of an electric light plant is under consideration.

**Okla., Yale**—Proposal to issue \$32,000 bonds for installation of municipal electric light plant will be submitted to voters; H. Askin of Cushing, engineer.

**Wis., Ashland**—The Ashland Lighting Co. has perfected its title to lake frontage and dock property and will erect an auxiliary steam plant for their lighting and street railway system.

**Wis., Fairweather**—The Fairweather Electric Co. incorporated, capital \$25,000; John Laper, John O. Laper and Jesse W. Laper, incorporators.

**Wis., Grand Rapids**—Bonds for electric light plant were sold to N. W. Halsey & Co. of Chicago, Ill.

**Wis., Ladysmith**—W. D. Morgan, city engineer, desires prices on one chemical wagon fire extinguisher and an electrically operated general fire alarm or siren.

**Wis., Madison**—A petition is being circulated here for installation of an ornamental lighting system.

**Wis., Oshkosh**—Board of education has authorized Henry Auber to prepare plans for central plant to supply light, heat and power to the Central high school and annex, and the Beach manual training school; D. Witzel, city clerk.

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**Kans., Ft. Leavenworth**—Bids for electrical wiring, etc., to-

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Per Egglestine,  
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gether with general contract for library building, will be received Jan. 11, by the constructing quartermaster, Fort Leavenworth.

**Minn., Ely**—Bids will be received until Jan. 12, 2 p. m., for installation of an electric lighting system in the new 24-room grade school building, district No. 12, St. Louis county; check 5 per cent; plans with Thos. E. Miller, secretary, school board, Ely, or with architect, Howard C. Parson; 601 Phoenix building, Minneapolis.

#### CONTRACTS AWARDED.

**Nebr., Norfolk**—Contract awarded to the Nebraska Gas & Electric Co. of Norfolk, for period of 10 years provides for erection of 400 candle power lamps, in business section, and bracket system carrying 60 candle power lamps in residence section; work to begin at once.

### MISCELLANEOUS

\***Minn., Owatonna**—Two greenhouses of H. C. Partridge were burned; partly insured.

\***Iowa, Eddyville**—Chas. Switzer and Fred Harding have contracts for mine buildings, near Hayden, Colo., for the Colorado & Utah Coal Co.

### RAILROADS

**Man., Winnipeg**—C. N. will build branch line from Edmonton to Peace River, 60 miles, completed total 150 miles.

### NEW FIRMS INCORPORATED

**Ill., Chicago**—John F. Garner, E. W. Hayes and L. S. Flatau have incorporated the Paint Products Co. of Chicago; capital \$100,000.

**Ill., Chicago**—The Chicago Building Construction Co. of Chicago, has been incorporated for \$2,500; the incorporators are John Swanson, Theodore Lind and Andrew Nelson.

**Ill., Chicago**—The Edwards Lighting & Fixture Co. of Chicago, has been incorporated with a capital stock of \$25,000.

**Iowa, Nora Springs**—Light & Power Co. has been organized with a capital of \$10,000.

**Mich., Grand Rapids**—The Carpenter Construction Co., of Grand Rapids, Mich., has been organized with a capital stock of \$30,000.

**Mich., Monroe**—The Monroe Binder Board Co. announces an increase in its capital stock from \$375,000 to \$500,000.

**Minn., Duluth**—The Northern Improvement & Realty Co., Duluth, \$50,000; Lucian Merritt, president, A. L. Merritt, vice president, Henry Merritt, secretary-treasurer, Duluth.

\***Minn., Luverne**—Johnston-Kolegraff Lumber Co., \$50,000; Charles L. Johnston, Luella C. Johnston, Geo. E. Kolegraff.

\***Minn., Minneapolis**—Arctic Silo Co., \$100,000; L. R. Welles, Geo. P. Thompson, R. N. Pierson.

**Minn., Minneapolis**—Northwest Enterprise Co., \$50,000; L. C. Church, L. B. Porter, Fred W. Bell, Geo. S. Porter.

**Minn., Minneapolis**—Carter Theater Curtain Co., Minneapolis, \$50,000; Chas. D. Carter, president, E. J. Phelps Jr., vice president, Grace M. Carter, secretary, R. Phelps, treasurer, all of Minneapolis.

**Minn., Pine River**—Farmers State Bank of Pine River, \$12,000; W. H. Jenkins, G. J. Dobbin and others.

**Mo., Kansas City**—The Rotary Valve Manufacturing Co. of Kansas City, has been incorporated with a capital stock of \$250,000.

**N. D., Fargo**—The Valley Investment Co., \$25,000; Aubrey Lawrence, Fargo, B. N. Lesh, Fargo, L. J. Zimmerman, Fargo, W. M. Koon, Minneapolis, Minn.

**N. D., Hanover**—Hanover Mutual Telephone Co., \$2,700; Christ Zum Mallen, John H. Albers, Paul Wolff, Hanover, N. D.

**N. D., Langdon**—The Development Association of Calavier County, \$10,000; C. W. Plain, Milton, N. D.; Geo. W. Price, Langdon, C. E. Johnson, Longdon.

**N. D., Loring**—The Dodge State Bank, Dunn county, \$10,000; G. W. Dodge, L. C. Pettibone, C. A. Cross, Loring.

**Wis., Fairweather**—The Fairweather Electric Co. of Fairweather, Wis., has just been incorporated with a capital stock of \$25,000; the incorporators are John Laper, John O. Laper and Jesse W. Laper.

**Wis., Janesville**—The Janesville Electric Co. of Janesville, Wis., announces an increase in its capital stock from \$100,000 to \$300,000.

**Wis., Merrill**—Caxton Metal Builders of Merrill, is a new corporation with a capital of \$1,000.

**Wis., Milwaukee**—Messrs. W. E. Schultz, Rudolph Pfiel and Herman Zotel have incorporated the Phyar Extinguisher Co. of Milwaukee, Wis., capitalized for \$100,000.

**Wis., Neenah**—The Jersild Fire Escape Co. of Neenah, Wis. has been formed to manufacture fire escapes. The capital is \$100,000 and the officers are: Jens E., Neils C., Evald M., and Holger Jersild.

**Wis., Oshkosh**—A. W. Schram Manufacturing Co., \$100,000; Thos. A. Meaney, C. H. Young, P. D. Claud, all of New London.

**Wis., Oshkosh**—Wisconsin Specialties Co., \$10,000. Henry Mossell, Eugene Smith and Geo. Caswell.

**Wis., Superior**—Camel Building Corporation, \$60,000; W. E. Barber, W. J. Weybright and others.

**Wis., Wittenberg**—Wheeler Arnold Co., \$50,000; W. L. Arnold, C. H. McDonald, A. R. Schmidt.

### GARAGES AND BARNES

**Iowa, Epworth**—R. Robert is making cement blocks for a garage that he will build in the spring.

**Iowa, Imogene**—The octagon barn on the Matt O'Brien farm burned; insured for \$1,500.

**Minn., Fertile**—Bearson & Son will build a large garage in the spring.

**Nebr., Exeter**—Harry Coates is building a large sale barn; 54x126, sides covered with steel.

**N. D., Dazey**—Nelson livery barn burned.

**S. D., Millbank**—New barn owned by Otto Krueger in Kilburn township, burned; 36x50, complete loss.

**S. D., Newell**—Autie Amunson is figuring on building a garage.

**Wis., Chippewa**—Barker Auto Co.'s garage badly damaged by fire; loss, \$4,000; covered by insurance.

**Wis., Oconto**—Peter Albert's barn, three miles east, burned.

#### CONTRACTS AWARDED.

**Nebr., Brock**—Contract to H. A. Brown for concrete garage for J. M. Campbell; 34x110.

**N. D., Wild Rose**—Contract for brick garage for Jonathan Winkler let to Contractor Heath; 45x60, 10-foot ceiling, concrete floor, cost \$2,700.

**Wis., Milwaukee**—Ney & Schanko, 2513 Vliet st. will erect a 17x70-foot addition to their garage, to be used for machine shop purposes; G. Leipold, architect, awarded the contract to H. Koenig.

### BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

**Colo., Boulder**—Plans prepared by architect A. E. Saunders for extensive improvements and new fronts in building owned by Geo. Adams, 1416 Pearl st.

**Colo., Grand Junction**—Barton & Terrill will engage architects at once to prepare plans for a modern 3-story warehouse, at 431 South av.; bids will be opened about April 1.

**Iowa, Boone**—A new exclusive bank building may be erected here by the First National people, who are conferring with architect in regard to plans.

**Iowa, Des Moines**—W. H. Mathias is planning erection of a new building.

**Iowa, Kanawha**—Cook & Prelip will erect an ice house soon.

**Iowa, Lake View**—A new business block will be erected by Adam Teeple, cement and stone, at Lake View in the spring.

**Iowa, Perry**—A substantial addition will be erected by the Perry Savings Bank in the early spring.

**Iowa, Primghar**—Phil Baker will erect a store building soon as weather permits.

**Iowa, Rockford**—A new brick building will be erected by Wm. Briggs.

**Iowa, Sac City**—Milton Reinhart is assisting Fred Corrington in erection of hardware store for Hirons & Kirkpatrick in Early.

**Iowa, Schelswig**—Fire destroyed three leading business houses here; total damage \$50,000.

**Mich., Iron River**—Marolf & Oberg have accepted plans for a flat and office building, modern; Smith & Anderson, architects, work started; John Miron, contractor.

**Mich., Ironwood**—Fire destroyed the store building of the Finnish Trading Co.; loss about \$7,500, insured at \$5,200.

**Minn., Fairmont**—Harry Gilberts will erect a modern building, permit granted.

**Minn., Gaylord**—Fire destroyed the hardware and machinery



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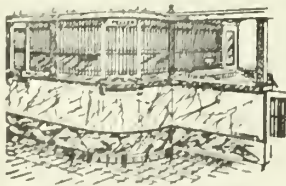
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establishment of Mueller Bros; loss partly covered by insurance.

**Minn., Morris**—Two new brick business buildings will be erected here in the spring by H. B. Lund and J. J. McCanney.

**Minn., North Branch**—Fire destroyed the Herried-Erickson Mercantile Co. building, loss \$15,000; insured at \$10,000; Nelson's confectionery, loss \$1,000; Martin & Smith's garage and implement house; loss \$2,000; insured \$1,000.

**Minn., St. Paul**—Fire damaged the Enterprise Clothing Co. stock and the Sperry-Hutchinson Co. stock, first estimated at \$15,000 and latter \$10,000; fully insured.

**Mo., Hardwood**—A new bank building will be erected here.

**Mont., Billings**—Work will begin on Montana Power Co.'s new office building early in spring; excavation completed, 4-story, modern throughout; cost complete \$130,000; Link & Haire, architects, Helena.

**Mont., Billings**—Work will start shortly after first of new year on remodeling of the Buckley-Doyle building.

**Mont., Dillon**—Fire damaged the Olmstead-Stevenson store, \$1,000.

**Mont., Hinsdale**—The Valley City Bank here are planning erection of a modern 2-story, brick building, to be erected in the early spring.

**Mont., Kaderberg**—Keating Co. plans erection of a warehouse building.

**Mont., Lavina**—Albert Holte of city and Wm. Lammers of Belmont are planning immediate erection of a new store building, modern at Belmont.

**Mont., Libby**—Plans are being prepared by Williams & Williams,, architects, Couer d'Alene, for a store building for J. U. Ness, Fort Ground.

**Neb., Holstein**—A new brick business building will be erected on site of old bank building; work to be finished in the spring.

**Neb., Loomis**—Abramson & Johnson of the meat market will erect a new modern building.

**Neb., North Bend**—R. B. Sloss has foundation in for new postoffice building, 22x66, 2-story; upper floor planned for offices.

**Neb., Omaha**—Mrs. Elizabeth Dufrene will build a 3-story and basement, brick and stucco building, 50x130.

**Neb., Papillion**—A new business block will be erected here, 2-story, lower floor to be occupied by new bank and Fred Pell drug store.

**Neb., Sidney**—A modern brick and stone store building will be erected by a local capitalist.

**N. D., Dickey**—Fire destroyed the First State Bank and damaged the Farmers' State Bank.

**N. D., Mandan**—A. Lanterman will rebuild business building recently burned; brick, modern; also destroyed the Syvrud harness shop.

**N. D., Williston**—Fire destroyed the second hand store of Champion & Meyers, undertakers and piano dealers; loss \$10,000; partly insured.

**S. D., Belle Fourche**—Fire destroyed the restaurant building of Thos. White, and damaged the C. S. Small clothing and dry goods store.

**S. D., Milbank**—Erlandson & Johnson will soon begin erection of a modern business building.

**S. D., Sioux Falls**—Fire destroyed the general store of J. S. Houge, insured at \$2,000.

**S. D., Victor**—Fire destroyed the Clark general store, Williams pool hall and bank building, the bank will rebuild at once.

**Wis., Beloit**—Fire damaged the Wilcox & Olson drug store.

**Wis., Chippewa Falls**—Fire damaged the Barker Auto Co., garage about \$13,000.

**Wis., East Grand Forks**—Fire destroyed four buildings of the John Gund Brewing Co., loss about \$100,000, John Gund, La Crosse, Wis., owner; insured at \$20,000.

**Wis., Janesville**—Fire destroyed the office and warehouse of the Schlitz Brewing Co., loss about \$6,500.

**Wis., Milwaukee**—Fire destroyed the dry goods and millinery store of L. Abrams Co.; loss \$25,000; partly insured.

**Wis., Neenah**—Fire destroyed the warehouse of the Jersild Knitting Co., loss about \$40,000.

**Wis., Wausau**—Packing house, 3-story and basement, 106x120; plans furnished by Department of Animal Industry, Washington, D. C.; will be built by Farmers' Co-operative Packing Co.; F. Schuler, 205 Jackson st., will be ready to take bids about Jan. 15; brick, composition roof, structural iron; \$75,000.

## FIRE APPARATUS

**Colo., Denver**—Bids will be called for shortly for furnishing motor pumping engine, Alexander Nisbet, commissioner of public works.

**Minn., Brainerd**—City will purchase a new motor truck for fire department.

**Mont., Geraldine**—Preliminary steps have been taken for incorporation of town.

**Ore., Portland**—Contracts awarded as follows for cotton rubber lined fire hose; treated hose, A. G. Long, Portland, Ore., agent for Keystone brand hose, 5,150 feet; untreated hose, Boston Woven Hose & Rubber Co., Boston, 8,500 feet; C. R. Winslow, agent, Portland, Ore.

**S. D., Sioux Falls**—City commission has opened bids for a 75-foot aerial truck, costing about \$11,000.

**Wis., Chilton**—Following officers were elected at the Chilton Hose Co., No. 1, meeting: hose captain, Alvin P. Baumann, Randolph Grasswold, secretary, Ray Grasswold, treasurer.

**Wis., Ladysmith**—W. D. Morgan, city engineer, desires bids and prices on one chemical wagon fire extinguisher and an electrically operated fire alarm or siren.

**Wis., Sheboygan**—Wm. Trotter of Milwaukee was elected as chief of the fire department.

**Wis., Spring**—Special election will be held Jan. 19, to vote on incorporation of town of Spring into a village.

**Wis., Verona**—Verona may incorporate.

**Wis., West Salem**—R. H. Gilfillan was elected chief of the volunteer fire department; H. C. Heider, president.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**Iowa, Clarinda**—Hearing Jan. 22 on grading, curbing, guttering and paving Water and Chestnut sts.; also, hearing Jan. 8, on grading, curbing, guttering and paving Grand and 16th sts., and Lincoln av.; T. A. Wilson, city clerk.

**Iowa, Davenport**—John J. Malloy, county engineer, proposes to have the county divided into separate districts for the purpose of constructing permanent highways, the assessment for the work to be left to each district itself; expected 2 miles 15 feet wide, will be built next year.

**Kan., Chanute**—Definite action expected early in 1915 on paving of S. Malcolm av. and contract probably awarded early in the spring; address city clerk.

**Kan., Topeka**—Resolution has passed city council for combined curb and gutter and paving on Chestnut st., 7th to 8th sts.; paving to be of vitrified blocks on 4-inch concrete base with asphalt filler and to be 46 feet wide; address city clerk.

**Kans., Topeka**—Petitions filed for approximately 30 blocks of street paving for 1915; C. B. Burge, city clerk.

**Mich., Escanaba**—Bids received by road commissioners of Delta county, 703 Ludington st., until 10 a. m., Jan. 4, for stone delivered on Iron Mountain trunk road; check for 5 per cent; also, at same time for ditching and macadamizing of Manistique trunk road; check for 5 per cent; R. P. Mason, county engineer.

**Mich., Manistique**—Luce and Schoolcraft counties will be united next year by a system of good roads; Luce county voted \$100,000 for this purpose last year and part of it has already been expended; the state pays the counties \$2,000 per mile of trunk line built and in addition builds all bridges of a 30-foot span or more and does all surveying.

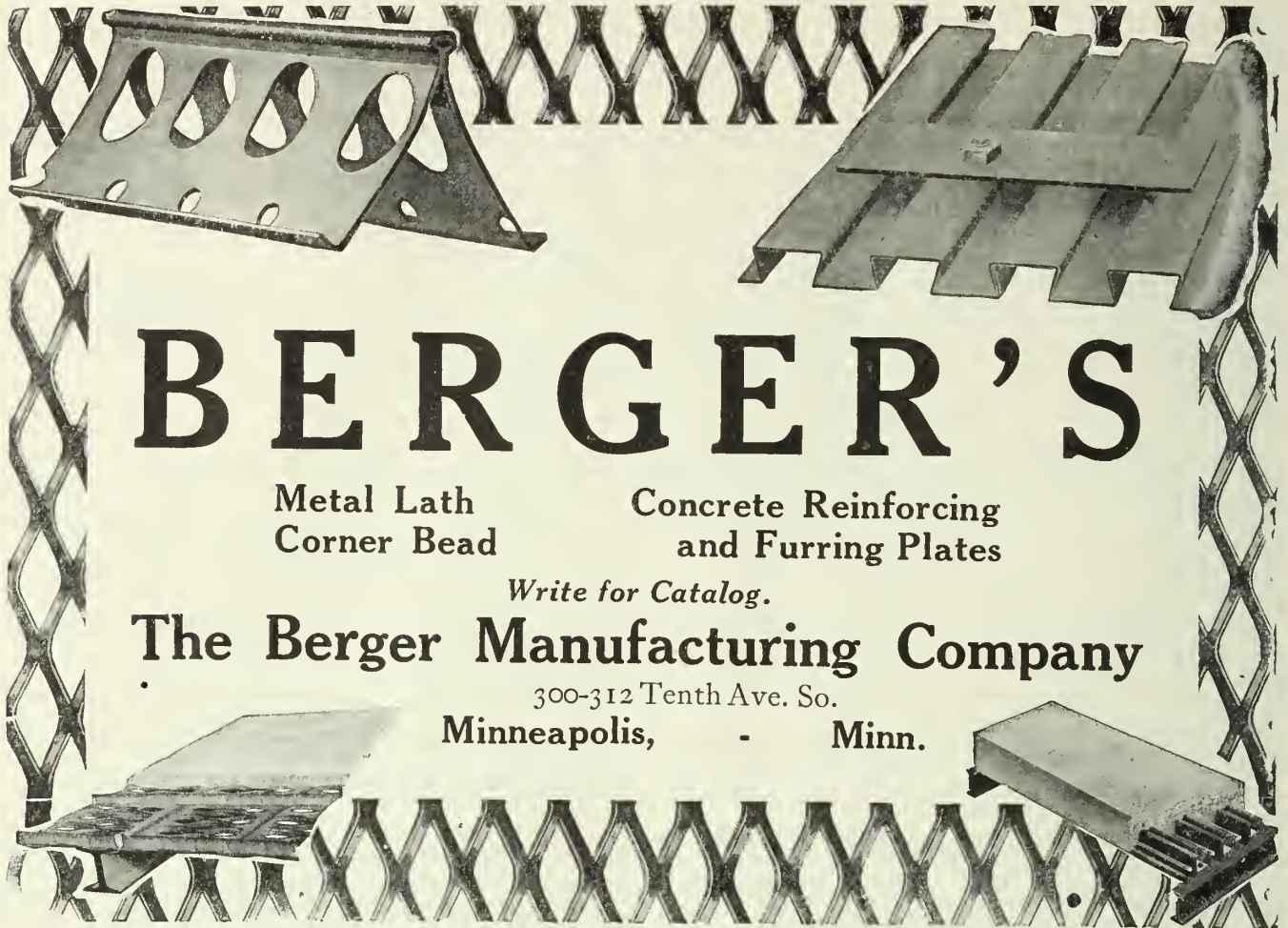
**Minn., Duluth**—Residents of Park Point want Minnesota av. paved between 12th and 38th sts. in one contract, or not at all, this representation having been made by a committee of the Park Point Improvement club of which S. M. Johnson was the chairman; cost is estimated at \$75,000, of which the city's share would be \$20,000; Roderick Murchison, head of works division, could not promise it positively, but will have the work done if possible.

**Minn., Farley**—Hotel and general store owned by W. T. Blakely destroyed by fire; loss, \$50,000, no insurance.

**Minn., Hibbing**—Ordinances being published for certain sidewalks and crosswalks to be built and repaired; Thos. F. Brady, village recorder.

**Minn., Moorhead**—John Oberg will lay out an addition to the city and streets will be extended, graded and sidewalks





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built, next summer; also sewers and water mains will be extended.

**Minn., New Ulm**—County commissioners have appropriated \$30,000 for state roads in 1915; Louis G. Vogel, auditor, Brown county.

**Minn., St. Paul**—The council has passed street grading orders aggregating \$16,662, and which include three alleys between Blair and Lafond st. and Snelling and Asbury av. at \$321 or 30c a front foot; Cretin av., from Summit av. to St. Clair st., at \$3,405, or 82c; Hand st. from Front to Maryland st., at \$4,147 or 94c; Hyacinth st. from Edgerton st. to Payne av., at \$2,418, or \$2.18; Pierce av., from Brompton st. to Como av., at \$1,996, or 76c; Fauquier st. from Kennard st. to White Bear av., and Flandrau st., from 7th to Minnehaha st., at \$4,375 or 99c; also alley from Oxford to Chatsworth st., between Fairmont and Osceola avs.; Warwick av. between Randolph and Palace sts., at a cost of \$1,160; and the paving of Berkeley st. from Prior av. to Josephine st., at a cost of \$1,786; August Hohenstein, purchasing agent.

**Minn., St. Paul**—City council is discussing the paving of Concord av. as the main business artery between St. Paul and So. St. Paul; unpaved portion of the street is two miles and lies practically all within the So. St. Paul limits; cost of a 40-foot wide pavement is estimated from \$30,000 to \$90,000, according to kind of pavement, the first figure representing concrete, the other creosoted blocks; the matter will be taken up by So. St. Paul at a meeting of the Commercial club, Jan. 2; P. T. Glidden, president of club.

**Minn., St. Paul**—Preliminary orders have been adopted for the following paving: Smith av., from College av. to north end of high bridge; Smith av., from south end of high bridge to Annapolis st.; Laurel av., from Dale st. to Lexington av.; Lexington av. from Summit av. to Como park; Concord st., from Ada to Annapolis st.; Earl st., from Hastings as. to Indian Mounds park; 3d st., from Marie to Bates av.; Phalen av., from 7th st. to Stillwater av. and Stillwater av., from Phalen to Prosperity av.

**Minn., Winona**—The county board has established by unanimous vote the proposed system of more than 100 miles of state highways in the county and confirmed the reports of the different road viewers; this means the construction of over 100 miles of improved highway at a cost of close to \$600,000, to be done under the Elwell law. The board has also approved of an application for an additional state highway in the county extending for 6.8 miles south from St. Charles; C. W. Anding, county auditor.

**Mo., Springfield**—It is expected that contract will be awarded soon on paving Commercial st., 2,000 square yards second class brick paving; address city clerk.

**Neb., Falls City**—Chase st. property owners want that street paved; address city clerk.

**Neb., Lincoln**—Plans under way for the paving of Holdredge st. with asphalt; address city clerk.

**Neb., Lincoln**—Many streets paved with brick will probably be resurfaced next summer; address city clerk.

**Neb., Omaha**—Property owners have petitioned for paving of Farnum st. with asphalt from 20th to 24th; address city clerk.

**Neb., Omaha**—City commissioners accepted petition calling for asphalt pavement on Farnam st., 20th to 24th; address city clerk.

**Wis., Hurley**—Sum of \$800 has been appropriated for miscellaneous machinery; Wm. Weber, highway commissioner, Sexton, Wis. This county has \$42,000 available for earth roads in 1915.

**\*Wis., Manitowoc**—Paving on 10 blocks will be either brick, asphalt or creosote blocks, advertise early in the spring; Arthur Reichert, city clerk.

**Wis., Monroe**—Green county has \$100,000 available for road work in 1915; may lay some concrete; E. L. Edwards, highway commissioner, Monroe.

**\*Wis., Two Rivers**—Thirty blocks of macadam paving are contemplated on Roosevelt av. in the spring; Jos. Doleysh, city clerk.

**\*Wis., Waukesha**—Three or four blocks of paving are contemplated on Beechwood av. in the spring; Wm. Powrie, city engineer.

#### BIDS WANTED.

**Ida., Bonners Ferry**—Bids received by county commissioners until Jan. 13, for road No. 48; Robt. S. McCrea, clerk.

**Kans., Coffeyville**—Bids received by Gerald A. Otwell, county clerk, until noon, Jan. 4, for construction of Coffeyville-Caney road and Independence-Caney road, in Montgomery county.

**Minn., St. Paul**—Bids received by August Hohenstein, purchasing agent, until 10 a. m., Jan. 4, for grading and improvement of Clear st. from Arcade to Forest st.; check for 10 per cent; also, at same time, for grading and improvement of Juno st., from Edgumbe road to Hamline av.; check 10 per cent.

**Minn., St. Paul**—Bids received by August Hohenstein, purchasing agent, until 10 a. m., Jan. 4, for grading and improvement of Clear st.; check for 10 per cent; bids received by same until 10 a. m., Jan. 11, for grading and improvement of Barrett st.; check 10 per cent; also, at same time, for grading and improvement of Goodrich av. and Dunlap st.; check 10 per cent.

**Mont., Great Falls**—Bids received by W. H. Harrison, city clerk, until 8 p. m., Jan. 19, for concrete sidewalk and curbing in such places as the council may direct and order during the year 1915; check for 10 per cent.

**Mont., Hardin**—Bids will be called for early in January for concrete sidewalks costing approximately \$40,000; address city clerk.

**Neb., South Omaha**—Bids received by Perry Wheeler, city clerk, until 8 p. m., Jan. 4, for paving, curbing, grading and guttering of streets in districts No. 115, 116 and 118; bids on asphalt, stone, vitrified brick, vitrified brick block, artificial stone, macadam, asphaltic concrete and creosoted wood block; check for 5 per cent.

#### CONTRACTS AWARDED.

**Wash., Port Orchard**—Contract to Nelson & Shoule, city, for grading amounting to \$10,000.

## SEWERS

*Notes arranged alphabetically by States.*

**Ark., Harrison**—Election postponed from Dec. 22 to Feb. 22 for proposed \$90,000 bond issue for installation of sewer system, etc.; Albert C. Moore, engineer, Joplin, Mo.

**Iowa, Anthon**—City council is discussing a sewer system; address city clerk.

**Iowa, Burlington**—The final estimate for the construction of the Louisa st. sewer has been approved by the council; amount is \$2,037.

**Iowa, Clinton**—Resolution will be introduced in council ordering city engineer to prepare plans and specifications for a sewer system in the 5th ward; address city clerk.

**Iowa, Lyons**—Plans and specifications for sewers in districts Nos. 7 and 8, will soon be presented to the council; address city clerk.

**Iowa, Onawa**—Council adopted resolution for sewer district covering entire town, and to include a purification plant, outlet and pumping station; address city clerk.

**Kan., Garden City**—The city is considering the voting of bonds for a sewer system; address city clerk.

**Minn., Duluth**—Expected that the first section of a sewer system for New Duluth and Gary in the district between Reis and House sts., would be ordered this week at a cost of \$35,000; John Wilson, city engineer; Roderick Murchison, commissioner.

**Minn., St. Paul**—Council has passed preliminary order for sewer on Fairmont av., from Fairview to Cleveland av.

**Mo., Springfield**—The construction of the 3-mile sewer east of the national boulevard in district No. 35, section No. 2, of the city, will include 9,769 feet of 8-inch pipe, 3,481 feet 10-inch pipe, 8 manholes, 3 flush tanks, 37 manholes, 6 drops into manholes, etc.; excavation, 6 to 8 feet.

**Neb., Omaha**—An appropriation has been asked for by the city attorney for extending the Saddle Creek sewer and completing open section of the sewers; no action.

**Okla., Drumright**—Election to be held soon to vote on bonds for sewer system; address city clerk.

**Ore., Portland**—Hearing Jan. 1 on a number of small sewers; address city clerk.

**Wash., Aberdeen**—Council considering resolutions for trunk sewer in parts of Sumner, Oak, Jeffries, Martin, Duffy and other streets; address city clerk.

**Wash., Seattle**—Four lowest bids for constructing sewers in Eli av. were L. Coluccio, \$20,879; L. R. Ellis, \$21,806; Dicken, Rightmire & Petersen, \$21,875; Thos. Scalza, \$22,070; contract to Coluccio.

**Wash., Tacoma**—Hearing Jan. 4 on sanitary sewer in 21st st., etc.

**Wis., Baraboo**—City engineer H. E. French has been authorized to make plans for the extension of the East st. sewer; address city clerk.

**Wis., Jefferson**—Petitions granted for several blocks of sewers on the west side; Dr. J. E. Brewer, mayor.



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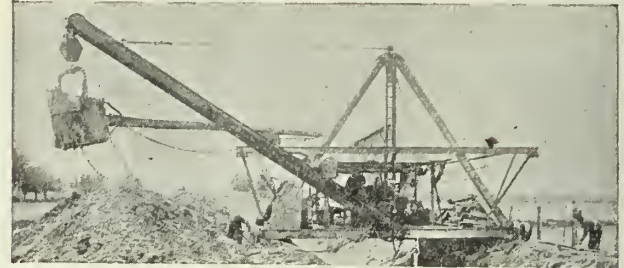
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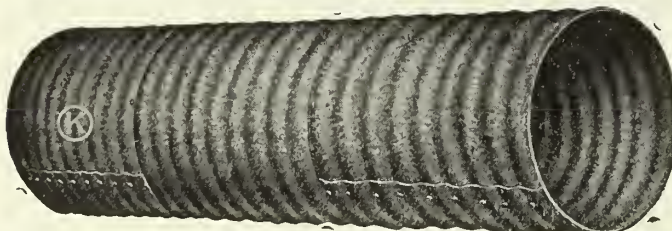
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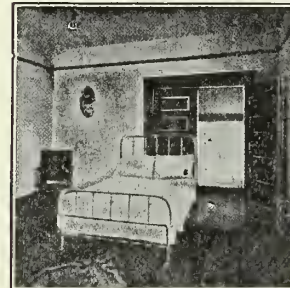
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**Wis., Marshfield**—Plans and specifications for sewers and drains will be prepared by W. F. Reichardt, civil engineer, Watertown, Wis.

**Wis., Superior**—Five sewer jobs are planned, not including the big Itasca contract, to provide employment for idle men this winter. One contract has already been awarded to Smith Bros. & Jacobson for a sewer in the alley between Cedar and Elmira avs. and Winter and 14th sts., and to cost \$4,780. Contract for sewer between Catlin and Banks avs. and Broadway and Belknap sts., to cost approximately \$5,000, will be determined soon. Main sewer to cost between \$10,000 and \$15,000 will be laid at the gas plant, and it is expected that 50 men will be needed on the Winter st. job; F. C. Tomlinson, head of street department.

**\*Wis., Two Harbors**—It is expected that about 4,000 feet of sewer will be put in here in the spring; Jos. Doleysh, city clerk.

#### BIDS WANTED.

**Iowa, Emmetsburg**—Bids received by T. F. Rutledge, city clerk, until 8 p. m., Jan. 4, for about 1,650 feet 8-inch sewer, one flush tank and four manholes; manholes and flush tank to be of hard burned brick, 26 inches wide at top and 48 inches wide at bottom; pipe to be No. 1, salt glazed and vitrified with sealed joints; average cut, 11 feet, maximum cut, 15.32 feet, minimum 6.28 feet.

**\*Mo., Springfield**—Bids to be received about Jan. 5, by T. J. Moor, city clerk, for three miles of sewer; requires 9,769 feet of 8-inch vitrified pipe, 3,481 feet 10-inch, 36 feet cast iron pipe, 8 lampholes, 3 flush tanks, 37 manholes, 138 feet additional manholes; approximate cost \$17,000.

**\*Wis., Manitowoc**—Bids will be advertised for at once by Arthur Reichert, city clerk, for 10 blocks of sewer reconstruction; 8- to 36-inch vitrified pipe.

#### CONTRACTS AWARDED.

**Minn., Frazee**—Contract to Wilcox Lumber Co. for the material for village sewer work at \$1,226, and to the Grand Forks Concrete Co. for the construction of the sewer at \$2,988; other bidders were the Haggart Construction Co. for both labor and material at \$4,750; Len Mayer, city, for labor only, at \$3,814; Wm. J. Kenneman, labor only, at \$3,750.

**Mont., Geraldine**—Contract to Roy A. Blyth for modern sewer system.

**Okla., Lawton**—Contract to Mayfield & Shaw, Ft. Bliss, Texas, for storm water sewer system at \$27,308.

**S. D., Mitchell**—Contract to J. S. Schwartz, Colorado Springs, Col., for lateral sewers in district No. 1; work to begin in near future.

**Okla., Redrock**—Steps will be taken soon for installation of water works system, and electric light system, the Benham Engineering Co., Oklahoma City, has been retained to prepare plans for and supervise installation of systems, bond issue will be voted, estimated cost \$30,000.

**Ore., Milwaukie**—City council reported to have sold \$20,000 bonds for construction of water works system, or purchase of present plant.

**S. D., Gregory**—H. E. McFayden has contract to furnish material for water main extension.

**S. D., Sioux Falls**—Extensive improvements are being made to the water works system at Highmore.

**Wash., Morton**—Proposition of issuing \$5,000 bonds for water system carried.

**Wash., Warden**—Bids will be received until Jan. 5, for water works system by city clerk.

**Wis., Kehlner**—Jerry Donohue, engineer, 704 N. 8th st., Sheboygan, Wis., is preparing plans for 1,500 feet water mains, 6 to 8-inch cast iron pipe, will mature in spring; address care of Otto Krepsky.

**Wis., New Richmond**—John E. Glover of city has purchased the \$12,000 bond issue for water works system.

**Wis., Sheboygan**—A universal water-meter system is proposed for city and a popular vote will be taken on subject in April, 1915.

#### CONTRACTS AWARDED.

**Iowa, Ottumwa**—Contract awarded to the J. W. Turner Improvement Co., Des Moines, for water works; for construction of two concrete dams, requiring use of 3,000 or 5,000 cubic yards of concrete; Horace A. Brown, superintendent, board of water works trustees.

**Minn., Biwabik**—Contract awarded to Ed. Ratio and Chas. Sippola and six associates for digging the well at the Biwabik mine.

**Minn., Buhl**—Contract awarded to the American Bridge Co. for erection of new steel water tower; work to begin soon.

**Minn., Keewatin**—Contract awarded to Burgess Electric Co. for one return air-lift pumping station, at \$6,985.

**Minn., St. Paul**—Contracts were awarded to H. Mueller Manufacturing Co. and Western Supply Co. of St. Paul for \$2,000 worth of brass water fixtures for water department.

**Mont., Hardin**—Contract awarded to the Security Bridge Co. at \$26,466, for laying remainder of municipal water works system.

## WATER WORKS

*Notes arranged alphabetically by States.*

**Iowa, Boone**—City engineer instructed to prepare plans and specifications for pump pit and pump.

**Iowa, Council Bluffs**—Contract is reported awarded to the Cast Iron Pipe Co. of Kansas City, Mo., for about 16,600 feet (lineal), 6, 8, 10 and 16-inch pipe.

**Iowa, Salem**—Vote on \$10,000 water works bonds was defeated.

**Iowa, Sioux City**—City has purchased land for new supply wells.

**Iowa, Storm Lake**—The Marcus Commercial club has asked city to call special election to vote on proposition of extending water mains and otherwise improving water system.

**Kans., Larned**—City is asking bids for new municipal water and light system.

**Minn., New Prague**—Proposal of Harris Air Pump Co. to furnish city with one No. 6-3 Harris 20th Century standard pump for city water plant for \$142, was accepted by city, and city electrician instructed to order same.

**Minn., St. Paul**—Worthington Co. was low bidder on water meters, 3,000 meters; cost about \$22,000, at \$5.10.

**Mont., Phillipsburg**—Council has under consideration cost of elevated water tank for water works system; J. H. Trawman, chairman, committee.

**Neb., Broken Bow**—Plans are in preparation for a water works system by Chas. F. Sturtevant, engineer, Holdrege, Neb., cost \$15,000.

**Neb., Holdrege**—City council has authorized the water committee to purchase a new starting engine for the water works.

**Okla., Kiefer**—City will vote on question of issuance of \$60,000 water works bonds, for water system.

## DRAINAGE AND IRRIGATION

**Idaho, Sunnyside**—The election held in the Sunnyside irrigation district to vote on the issuance of \$4,000,000 bonds, resulted in favor of the proposition, and J. M. Wise was re-elected president of the company; the proceeds from the sale of the bonds will be used in constructing a tunnel 37,000 feet long, building a large reservoir, a distribution system of canals and laterals, ditches, including concrete drops and headgates.

**Iowa, Logan**—Supervisors established the Modale drainage districts, J. N. Albertson, auditor, will advertise for bids soon and work will be pushed.

**Iowa, Logan**—Drainage ditch petitioned for by John Young and others was established.

**Minn., Crookston**—Surveying for the ditch near McIntosh has been completed by County Surveyor Beim.

**Minn., Fairmont**—B. W. Tyler and J. N. Eltgrath have the contract for ditch No. 43 at \$11,400.

**Minn., Granite Falls**—Bids received by commissioners of Yellow Medicine county. John J. Mooney, chairman, at office of S. O. Tjosvold, auditor, until 9 a. m., Dec. 30, for digging and constructing county ditch No. 8 and lateral No. 1. Estimated cost, \$10,653. Certified check for 10 per cent, payable to auditor.

**Minn., Jackson**—Hearing Jan. 11 on proposed judicial ditch 31; main and twenty-one branches. A. M. Schroeder, clerk of district court; O. Thoreson, attorney for petitioners, Lakefield, Minn.

**Minn., Le Sueur Center**—Hearing Jan. 14 on county ditch 41. J. H. Kaisersatt, county auditor.

**Minn., Mankato**—Hearing Jan. 15, on county ditch petition of E. H. Beise and others. C. L. Kennedy, county auditor.

**Minn., Stillwater**—County Auditor N. A. Nelson of Washington county and Auditor A. A. Caswell of Anoka county opened bids for the construction of judicial ditch No. 4, to be in each county. The estimated cost was \$17,690. The





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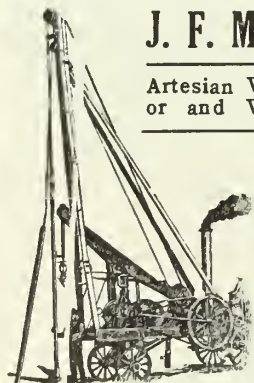
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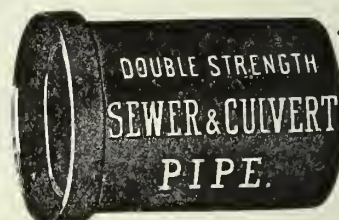
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three bids offered were too high; the auditors rejected them and decided to advertise for new bids. Henry Bingham of Lagrange, Indiana, bid \$18,725; Carl Christianson and M. D. Madsen of Litchfield, \$18,893.76, and F. Desormauz & Co., of Mankato, \$19,023.76.

**Minn., St. Paul**—E. V. Willard, state drainage engineer, has reported to the state drainage commission on recommended drainage of 50,000 acres of swamp land north of Roseau river; projects costing \$3,000,000 were completed during 1914.

**Minn., Wheaton**—Hearing Jan. 19 on county ditch 18. J. T. Erickson, auditor. Hearing Jan. 19 on county ditch 15.

**Mont., St. Ignatius**—Proposals received Dec. 15, for earth work, Pablo lateral A and sub-laterals, specifications No. 287, Flathead project, A. L. Markus, Polson, Mont., excavating 105,000 yards, 15c, \$15,750; excavating 600 cubic yards at 60c, \$360; excavating 400 cubic yards at 90c, \$360, overhaul, \$100, total bids \$16,570; Chas. Wilhite & Co., Boise, Idaho, \$16,275, \$270, \$300, \$100, total \$17,005; Wilson Bros., Polson, Mont., \$18,847, \$300, \$200, \$100, total \$19,447; Temple & Siroky, Hayburn, Idaho, \$20,475, \$210, \$392, \$100, total \$21,177; T. H. Lynch, Orland, Calif., \$27,300, \$300, \$600, \$100, total \$29,300; Chas. P. Williams, acting supervising engineer.

**Wis., Madison**—Town board of town of Madison will receive bids until 2:30 p. m., Jan. 9, for materials and construction of town drain; P. H. Hintze, engineer, Court House, Madison.

**Wyo., Lander**—Construction work on the Riverton Ditch Co. supply canal was started last week. Ditch is an extension of the LeClair ditch; will water about 14,000 acres. I. D. Woodward, of Riverton, engineer for the company.

#### BIDS WANTED.

**Iowa, Garner**—Bids received by county auditor, until 1 p. m., Jan. 5, for labor and material to improve and complete drainage district 40; Hancock county.

**Iowa, Storm Lake**—Sealed bids will be received till 2 p. m., Jan. 6, for improvements of drainage district No. 66; plans and specifications on file in the office of the county auditor. All bids must be submitted, received and acted upon separately as to the main ditch and each of the laterals. Each bid to be accompanied by a certified check or cash for 10 per cent of the amount of the bid. W. W. Bennett, county auditor.

**Minn., St. James**—Bids received till 2 p. m., Jan. 12, for constructing judicial ditch 8, Brown and Watonwan counties; estimated cost, \$8,527; depth, 3 to 11 feet; check for 10 per cent; one job or one or more sections; 2,000 feet 18-inch tile; 1,600 feet 16-inch, 590 feet 15-inch, 2,400 feet 14-inch, 4,400 feet 12-inch, 2,300 feet 10-inch, 9,200 feet 8-inch, 3,100 feet 7-inch, 5,150 feet 6-inch, 300 feet 5-inch, retaining wall. Louis G. Vogel, auditor, Brown county.

## BRIDGES

*Notes arranged alphabetically by States.*

**Colo., Florence**—Plans have been submitted to city council for new bridge as soon as county commissioner Pigg returns from the east and county commissioner and city council will confer regarding construction of the proposed structure; address city clerk.

**Iowa, Mason City**—Preliminary plans under way for a reinforced concrete bridge over Calmus Creek, probably bids will be called for early in 1915; address county clerk.

**Kans., Garfield**—Commissioners of Pawnee Co., Larned, have passed resolution appropriating \$13,000 for a bridge over the Arkansas river here; reinforced concrete.

**Kans., Topeka**—Plans are in preparation by city engineer, A. R. Young, for bridge over Shanganunga creek, on Kansas av., reinforced concrete construction, 130 feet long, contract will probably be awarded in January; later in year city will construct bridge at Lincoln st.

**Kans., Wellington**—The county commissioners will construct a new wagon bridge over the Ninneseah river; estimated cost \$6,000; plans being prepared by Missouri Valley Bridge Co.

**Minn., Cass Lake**—The Great Northern will build two large steel draw bridges across neck of the lakes, both to be 2-span, one being 165 feet long and the other 195 feet; cost about \$25,000.

**Wis., Eagle River**—County board provided for construction of bridges in town of Presque Isle, Vilas county, for 1915, cost \$7,000; Geo. H. Jackson, county highway commissioner.

**Wis., Hudson**—County will build bridges in about 12 towns, H. S. Offerdahl, county clerk.

**Wis., Saxon**—Highway commissioners will build bridges in Iron county in 1915; cost about \$9,200.

#### BIDS WANTED.

**Colo., Pueblo**—Bids will be received until Jan. 4, for erection of two steel-span bridges, to supplant present frame structure at 1st st., over Fountain river; plans and specifications by city engineer.

**Kans., Anthony**—Bids received until Jan. 11, noon, for bridges, (10), three of reinforced concrete and seven to be concrete, roadways or low water bridges; R. P. Chervaux, county clerk, board of county commissioners.

**Kans., Ellinwood**—Bids will be called for early in new year for bridge over the Arkansas river, C. L. Phelps, assistant to state engineer, Gearhart, Manhattan, Kans., has completed surveys, probably reinforced concrete.

**\*Kans., Marysville**—Bids received until 12 m., Jan. 11, for bridges in various townships; certified check \$50, or more; plans at office of county engineer. A. A. Nork, clerk, Marshall county.

**Kans., Yates Center**—Bids received until Jan. 4, for two steel I-beam bridges with concrete substructures and reinforced concrete floors; the Pierson bridge, Eminence township and the Plum Creek bridge, Owl Creek township.

**Minn., Breckenridge**—Bids received until 10 a. m., Jan. 12, for seven bridges over county ditch No. 6, and 10 bridges over county ditch No. 12; plans at office of county auditor, Breckenridge; check 10 per cent.

**\*Minn., International Falls**—Bids will be advertised for soon as plans and specifications are approved by highway commissioner, for Harrigan bridge; L. H. Slocum, county auditor.

**Minn., Jackson**—Contract awarded to P. T. Havreberg of St. Paul, Minn., for state bridge No. 1428, on state road No. 1, town of Weimer, Jackson county; C. C. Weins, auditor.

**Ore., Portland**—Bids will be advertised for at once for construction of \$1,750,000 bridge to span the Columbia river, between Portland, Ore. and Vancouver, Wash.

**\*Iowa, Waverly**—Bids will be received until 12 m., Jan. 4, for 3 90-foot steel spans at Schlager's bridge site, section 16-92-14; plans at office of county auditor; check 5 per cent; bids will be received at same time and place for 3 90-foot spans, f. o. b. Irma, Iowa, paint for two field costs for same, field rivets, reinforcing steel for floor, also above steel spans delivered together with concrete floor; W. H. Pockels, county auditor.

#### CONTRACTS AWARDED.

**Idaho, Gooding**—Contract awarded to Long & Blodgett, Gooding, Idaho, for eleven bridges reinforced concrete and culverts on Hagerman Valley line in the Idaho-Pacific highway; plans by state highway commissioner.

**Minn., Mankato**—General contract awarded to the Widell Co., Mankato, for reconstruction of bridge in Blue Earth county; cost \$3,600; B. M. Gallagher, engineer, Mankato; John H. Hohman, chairman, Mankato, Minn.

**Minn., St. Cloud**—Contract awarded to Adams & Co. for erection of a bridge over Sank river, at \$3,899.

**Minn., St. Peter**—General contract awarded to the Minneapolis Bridge Co., Minneapolis, for erection of 10 bridges and 6 culverts on state road No. 54, at \$4,890; and general contract to Hennepin Bridge Co., Minneapolis, for 1 bridge and 6 culverts in state road 54, at \$5,225; state highway commissioner, Nicollet county; W. H. Holz, auditor; C. H. Jackson, chairman, St. Peter.

**Mont., Hardin**—Contract awarded to the Security Bridge Co., for purchase of \$11,500 bridge bonds.

**\*Mont., Roundup**—Contract awarded to Wm. Tillman & Co. for construction of ten bridges along Roundup-Billings road, at \$11.98 per thousand board feet in place.

**Ore., Portland**—Contract awarded to Cowlitz Bridge Co., Yeon building, Portland, Ore., at \$15,863, for erection of 8 steel swing bridges for Dallas-Celilo canal.

**Ore., Roseburg**—Contract awarded to Portland Bridge Co. for bridge across S. Umpqua river at Myrtle creek, at \$5,998, by county commissioners.

**S. D., Mobridge**—Contract awarded to the Twin City Bridge Co. of Minneapolis for erection of all bridges in county for 1915; also culverts.

**\*Wis., Dousman**—Contract awarded to Fred Mansfield, Lake Mills, Wis., for two private bridges, 14-foot spans, private plans, Col. Gustav, owner, care of Pabst Brewing Co., Milwaukee, Wis.

**Wis., Superior**—Bids received until 1 p. m., Dec. 30, for removal of old bridge and erection of new bridge over Bluff creek and ravine; plans at office of board of public works and city hall; check 5 per cent; W. R. Chadwick, chairman, board of public works.



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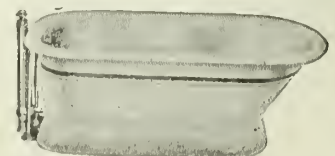
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## STREET AND ROAD WORK---Cont.

**Ida., Sandpoint**—Council passed resolution favoring paving down town business streets, estimated to cost \$100,000; address city clerk.

**Iowa, Burlington**—City council is considering the extension of 5th st. S., to Crapo park; address city clerk.

**Iowa, Cedar Falls**—The paving committee has been instructed to report at once a resolution of necessity for approximately fifty blocks of asphalt paving, being about 3 miles; actual construction expected to start early in the spring; address city clerk.

**Iowa, Sheldon**—Petitions in circulation for an additional mile of city paving; address city clerk.

**Ore., Pendleton**—The Umatilla county court will expend about \$100,000 for road and bridge work; the macadam highway between Pendleton and Milton will be completed.

**Ore., Portland**—Sum of \$100,000 levied for roads and bridges in Umatilla county; will complete macadamizing of road between Pendleton and Milton; address county clerk.

**Ore., Portland**—The Commercial club requests county commissioners to construct permanent resurfacing of the Slavin road.

**Ore., Sutherlin**—Surveys now being made and plans under preparation for 8 blocks of concrete paving, to be 24 feet wide; L. W. Hicks, city engineer.

**Texas, Beaumont**—County commissioners voted a \$200,000 bond issue for construction of new roads and improving existing roads.

**Texas, Denison**—Preliminary plans under way for improving and paving of streets at an approximate cost of \$125,000; address city clerk.

**Wash., Dayton**—During coming year \$333,729 will be available for roads; will build between 25 and 30 miles of road and keep roads in repair.

**Wash., Everett**—Only one bid received for grading and concreting certain alley, at \$1,584; rejected, and city will do the work by day labor.

**Wash., North Yakima**—Deputy county engineer, O. E. Brashers, is making plans for early start in road building in 1915; resolutions of intention for macadamizing 2 miles in Naches and for graveling 4 miles of Toppenish Wapato road have been adopted by county commissioners and plans submitted to state highway commission; commissioners plan to connect Ahtanum with Wiley City, to complete another mile on Tieton drive improvement to add another mile to Summit view extension, mile on Nob Hill blvd. west from Congdon into Wide Hollow and two more miles in the Selah on Wenas extension.

**Wash., Port Oxford**—County court at Gold Beach will be petitioned to construct 10 miles of road up Sixties to Avery pl. at Eckley.

**Wash., Spokane**—Board of county commissioners have decided informally to complete permanent highways to Deer Park and Waverly next summer at a cost of approximately \$150,000; bids to be called for as soon as detailed plans have been completed; to be water-bound, oil-bound, or gravel macadam.

**Wash., Tacoma**—Preliminary survey completed for new mountain road from Orting to Carbon glacier, 12 miles; next legislature to be asked for an appropriation to build the road.

**Wis., Amherst**—At a meeting of the village board it was decided to use concrete for the paving of the main street, which will begin next spring; address village clerk.

**Wis., Ashland**—Sum of about \$25,000 is available for dirt and gravel roads in 1915; Theo. R. Yankee, county clerk, Ashland.

**Wis., Baraboo**—About 20 or 30 miles of grading, graveling and macadam road work to be done in 1915; Geo. F. Post, highway commissioner.

**Wis., Beloit**—G. E. Heebink, city engineer, is reported as stating that during the coming summer 120,000 square feet of paving will be done in that city; 15,000 square feet to be brick, and the balance asphalt, the cost being about \$300,000, which will be spread out over a 10-year period.

**Wis., Eagle River**—Vilas county has \$15,000 available for earth roads in 1915; Geo. H. Jackson, highway commissioner, Eagle River.

**Wis., Elkhorn**—Stone crusher and oiler will be purchased after school in February, for which \$2,200 has been appropriated; H. C. Millis, chairman committee, Whitewater.

**Wis., Elkhorn**—Sum of \$70,000 available for road work;

may lay some concrete; H. J. Peters, highway commissioner, Elkhorn.

**Wis., Green Lake**—For road machinery in 1915 the sum of \$2,000 has been appropriated and \$28,000 is available for stone macadam surfaces; Samuel Owens, Green Lake.

**Wis., Hayward**—Sawyer county has \$18,000 available for gravel road in 1915; John Berger, county clerk, Hayward.

**Wis., Hudson**—About \$30,000 is available for roads in 1915, mostly gravel, no macadam; H. S. Offerdahl, county clerk, Hudson.

**Wis., Monroe**—Two crusher outfits (complete except power), heavy grader and small tools, also oil tank, will be purchased by Green county after the road school meeting; E. L. Edwards, Monroe, new county highway commissioner; P. H. Root, Brooklyn, chairman of commission.

**Wis., Phillips**—The county has appropriated \$3,000 for the purchase of a 15-ton 30 h. p. traction engine and other road machinery; W. H. Lippels, county clerk, Phillips, Wis. This county has \$34,000 available for new roads in 1915.

**Wis., Portage**—About \$80,000 available for roads in 1915; some concrete may be laid; Clint. Quinn, highway commissioner, Pardeeville.

**Wis., Stevens Point**—To buy wheel scrapers and oilers county has appropriated \$1,500; Ben. Halverson, chairman, committee, route 2, Amherst Junction, Wis.

**Wis., Superior**—Definite action in April or May on roads and bridges for which \$100,000 levy has been made; some road machinery to be purchased; W. J. Leader, Superior.

**Wis., Wausau**—About 10 blocks of macadam to be laid in 1915; may use asphalt binder; B. C. Gowen, city engineer.

**Wis., West Bend**—Oiler and other road machinery will be bought, but time not fixed; \$1,500 appropriated; Chas. Johnson, route 1, Barton, Wis.

## BIDS WANTED.

**Neb., South Omaha**—Bids received by Perry Wheeler, city clerk, until 8 p. m., Jan. 4, for paving improvement district No. 115 being the alley between 19th and 20th sts., from "I" to lot 11, block 4, Oakdale; paving improvement district No. 116, being 28th st. from "Q" st. to "R" st.; paving improvement district No. 118, being "N" st. from 6th to 20th st.; bids upon asphalt, stone, vitrified brick, vitrified brick block, artificial stone, macadam, asphaltic concrete and creosoted wood block; check for 5 per cent.

**N. D., Minot**—Bids received by A. D. Hagenstein, city auditor, until 8 p. m., Jan. 11, for the grading and improving of 6th st. SW., etc.; check for \$500.

**Ore., Bay City**—Bids received by city recorder until Feb. 4, for grading, paving, curbing and constructing sidewalks on a number of streets in the business district; estimated to cost \$35,000.

**Texas, Greenville**—Bids received by W. M. Henley, auditor of Hunt county, until Jan. 27, for construction of a system of improved highways in road district No. 1, for which funds are available to the amount of \$400,000; check 5 per cent; plans and specifications on file after Jan. 11, in office of Julian C. Field, consulting engineer, Denison and Greenville, or with county auditor.

**Texas, Sulphur Springs**—Bids received by A. D. Stivers, city engineer, until 2 p. m., Jan. 19, for approximately 35,000 square yards paving, 20,000 square yards concrete curb and 12,000 cubic yards of earth excavation; check for 5 per cent.

**Wis., Jamestown**—Bids received by Henry Mink, county highway commissioner, until 10 a. m., Dec. 29, for 10,657 cubic yards of grading and 8,395 lineal feet of guard rail, beginning near the east end of the Eagle Point high bridge and extending in an easterly direction 4,300 feet to a point at or near the C. B. & Q. Ry. tracks, in the town of Jamestown, Grant county, Wis.

## CONTRACTS AWARDED.

**N. D., Bowbells**—Contract to C. D. Smith, Minot, for the grade from Bowbells to the lake; three other bidders were: R. E. Knowlton, Geo. McKenzie and John Hagen.

**Ore., Bandon**—Contract to W. H. Webb for sidewalks, gutters, grading, etc., at \$11,900.

**Ore., Pendleton**—Contract to S. Rugo & Co., city, for 16,000 feet of concrete sidewalk, awarded by the N. P. Railway Co.

**Ore., Roseburg**—Contract to H. J. Hildeburn, city, for construction of two miles of road in the vicinity of Canyonville, at \$9,976.

**Wash., Hillyard**—Contract to Spokane Mitu Mass Paving Co. for \$4200 for paving of Market st., estimated by the engineer at \$4,000.



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### SHAPE OF OFFICE BUILDINGS MORE IMPORTANT THAN HEIGHT.

shadows or light rays on the streets, as compared to the lower buildings is concerned,—even granting that the taller buildings would have materially changed conditions,—I insist that the advantages for the occupants of the higher buildings, and thus to the public at large, would offset many times any imaginary disadvantage to the pedestrians and others using the streets.

"I repeat that the higher buildings would not have increased congestion on the streets and I contend that it is vastly more important to public health and general welfare, in view of the fact that people spend so little time on the streets compared with what they actually spend in the inside the four walls of some building, to have them housed, well in the buildings.

"I believe that this is a strong argument against a 140-foot, a 170-foot or a 200-foot limit to the height of buildings."

### SAND FOUNDATIONS FOR HIGH BUILDINGS.

Sand, being almost incompressible under ordinary conditions, can sustain very heavy loads with slight or negligible compression. When it directly overlays rock or other thick hard stratum and is securely confined or otherwise protected against possibility of lateral displacement it forms a satisfactory foundation and will carry heavy loads with safety as long as these conditions are maintained, says the Engineering Record.

It transmits pressure laterally so that a heavy vertical load may produce considerable horizontal thrust and to resist it the sand must be confined horizontally by natural or artificial means. At considerable depths below the surface the weight of the superincumbent material affords resistance to transverse or upward pressure and is equivalent to lateral confinement for ordinary pressures. This resistance, of course ceases whenever an excavation is made below and adjacent to the point of application of vertical pressure.

The presence of water makes a great difference in the character of the sand so that the drainage of wet sand or the saturation of dry sand under pressure is an important matter, while flowing water passing through sand, especially if fine, is very likely to carry the grains with it or produce a considerable movement.

Careful consideration must therefore be given to these factors when it is proposed to build heavy structures on sand foundations. If any changes in the amount of water in the sand are possible adequate safeguards to maintain the conditions must be adopted.

Many heavy buildings of moderate height, including some of the earlier steel cage sky-scrapers, have foundations on sand, usually only a few feet below the surface, and these foundations in many instances have proved entirely reliable. Almost all of them are at or above ground water level. Formerly they were made with timber and masonry footings, then of concrete and now almost entirely of reinforced concrete or of steel beams enclosed in concrete.

Some buildings have a monolithic foundation slab covering the entire area. While theoretically this distributes the load uniformly and produces the smallest unit pressure, it is generally very difficult and expensive to avoid excessive stresses in the distribution, and some such footings, especially those of concrete without adequate reinforcement, have become badly cracked and broken and have permitted serious settlement. It is therefore the general practice now to support the columns singly or in small groups on isolated separate footings proportioned to reduce the loads to substantially the same unit pressure on all.

The Spreckels building, San Francisco, 15 stories high, was built about fifteen years ago with all of its columns seated on a double grillage of continuous I-beams reaching entirely across the lot in both directions and embedded in a mass of concrete more than 4½ feet thick resting on wet sand 25 feet below the surface of the street. This has proved satisfactory enduring severe earthquake shocks which it was expected to resist.

The columns of the St. Paul building, a 26-story structure in New York, have steel beam and girder grillage with concrete footings on the wet sand about 30 feet below the street. The sand was loaded to 8,000 pounds per square foot and in several years has settled only a fraction of an inch and with such regularity that it has been unnecessary to adopt the special provisions designed for compensating irregular or excessive settlement.

In the new Municipal building, New York, part of the foundations are carried to solid rock and part supported on wet sand.

### COST OF A CONVICT-BUILT ROAD.

It cost Louisa county and the citizens of Columbus Junction and Fredonia \$13,167.42 to build the concrete road which has distinguished that vicinity as having the longest and best stretch of hard surfaced roadway in Iowa.

The road is 7,224 feet in length or 1.37 miles. It starts just across the Iowa river bridge from Columbus Junction, runs through Fredonia, on to the east a quarter of a mile, then for the balance of its length drops to the south and follows the Blue Grass road. The first section of the road is on both the Great White Way and the Blue Grass road. The entire length of the concrete is on the Blue Grass road and only about one-half on the White Way. Before the concrete was laid this was one of the worst sand stretches in the state. An automobile had difficulty in getting through at the best.

The concrete body is six inches thick at the sides, and seven and one-fourth in the center part. It is sixteen feet in width, with a dirt shoulder of five feet at each side and an expansion joint every thirty feet. It was built by convict labor from the Anamosa reformatory. W. F. Beard, a highway commission engineer, supervised the work, building according to commission plans and specifications. Sand was bought locally of a company which supplied it from an Iowa river bank delivered at 75 cents per cubic yard. The gravel was from a Mississippi river deposit washed absolutely clean and of such size as would pass a half-inch screen and be retained on an eighth-inch screen. It cost \$1.45 delivered. The convicts were paid at first 20 cents an hour and later at 25 cents per hour, the bulk of the work at the latter figure. The engineering expense, supervision and foremanship on the job cost \$510. Omitting the engineering expense the roadway cost \$1.02½ per square yard or approximately \$9,500 per mile. Including the engineering and supervision expense the cost was \$1.06 4-10 per square yard.

### PAINTING GALVANIZED IRON.

In answer to a question as to the best way to paint galvanized iron to keep it from rusting an English trade paper says:

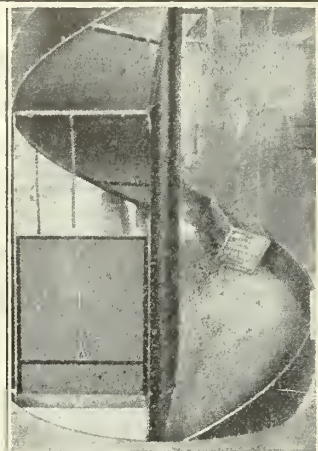
This is a question which is repeatedly answered in these columns, but as the trouble appears to be far spread, we have, of course, no objection to repeating our answer. Galvanized iron should not, as a rule require painting at all, the so-called galvanizing is zinc put on by the dipping process, the only object of this being to protect the sheet iron. Frequently, however, the zinc after a time comes off and then, of course, paint is required. Ordinary oil paint will not adhere to the zinc, and it is necessary, therefore, to give a preliminary or priming coat of water paint which adheres very well. Any first class water paint will do. Upon this can be given oil paint in the usual manner. Graphite paint is one of the most durable, and, therefore, the most economical, because it is, of course, in the application the expense lies. As the graphite is separated from the wall by the coat of water paint, no electrolytic action can take place between the two. Any oil paint, however, can be used, for instance, iron oxide answers well, but, as a rule, cheap paints are employed for the purpose, as, of course, a galvanized iron shed does not require the finest work. When the iron to be painted is of a very expensive character, it usually pays to spray the paint on by means of a suitable machine. It should be added that there are several special paints for galvanized iron on the market.

### A CEMENT-LINED JOINT FOR PIPE.

A cement-lined joint for a cement-lined pipe was described by J. D. MacBride, manager of the MacBee Cement-Lined Pipe Co., of Boston, Mass., at the November meeting of the New England Water Works Association. The one fault found with cement-lined pipe, in the meeting's discussion on service pipes, was the difficulty in getting a protected joint, for, although the coupling may be cement-lined, there is no assurance that there is not an opening at the end of the thread where water will come in contact with the iron and cause corrosion. On a recent piece of work Mr. MacBride was asked to guarantee a fully protected joint, and the accompanying sketch shows how he made the joint.

A hard-rubber ball of the same diameter as the pipe was inserted in the length of pipe to be added to. To the ball was attached a stiff wire, which was passed through the length of pipe to be added. The inside of the coupling, threads and all, was then coated with cement paste and the pipe length screwed on, after which the ball was drawn ahead to the next coupling. This insured a continuous cement-lined surface on the interior of the joint and obviated the difficulties met with in the ordinary joint.—Engineering News.





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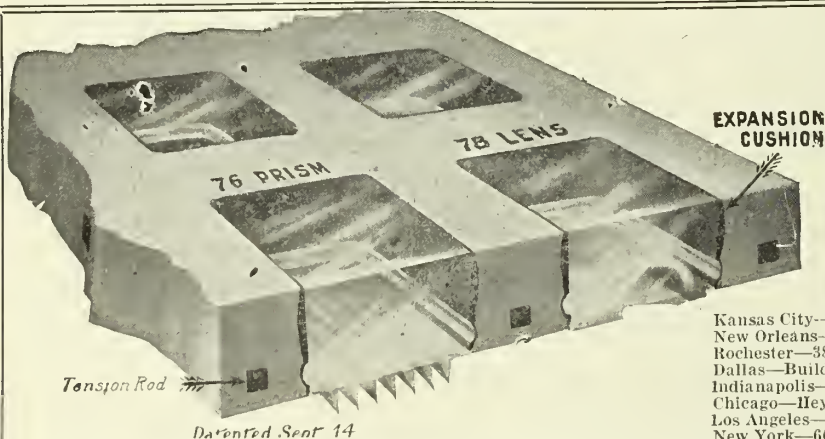
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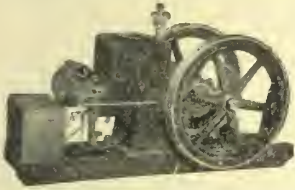
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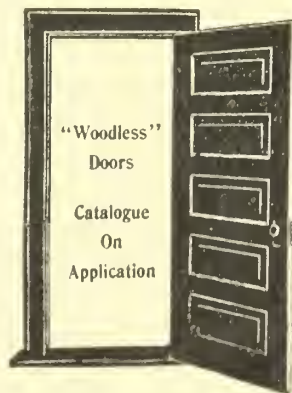
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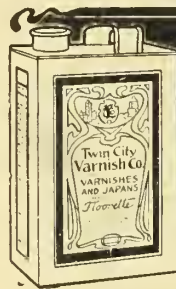
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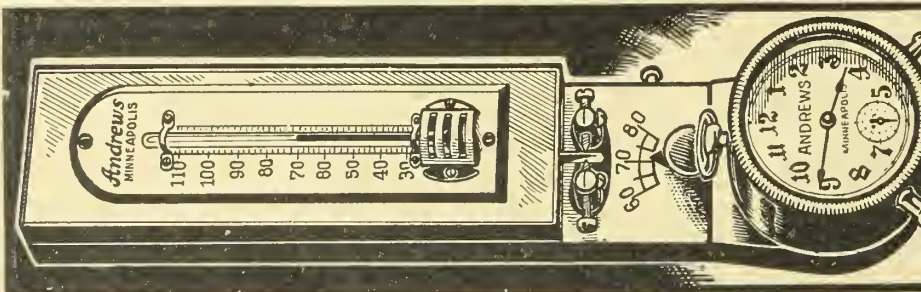
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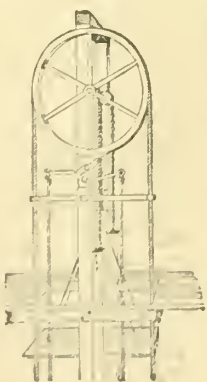
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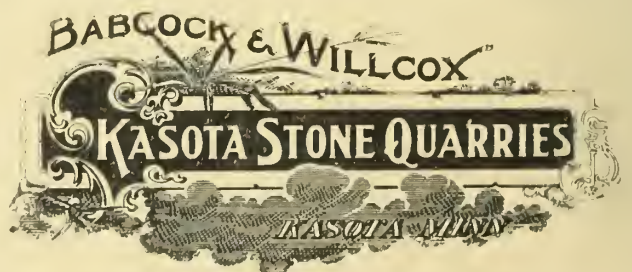
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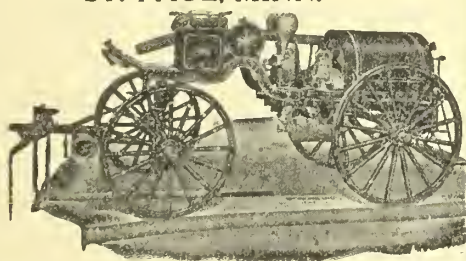
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., January 9, 1915.

Number 6

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- CEMENT FILLER.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.
- COAL CHUTES.**  
American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.
- COLD STORAGE PLANTS.**  
Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.
- CONCRETE CONSTRUCTION.**  
Avery Steel & Iron Co., Minneapolis  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.
- CONTRACTORS' LEVELS AND SUPPLIES.**  
David White Co., Milwaukee, Wis.
- CONCRETE MACHINERY.**  
Atlas Engineering Co., Milwaukee, Wis.  
Bragstad Concrete Mach. Co., Canton, S. D.  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
N. W. Concrete Steel Co., Minneapolis  
N. W. Steel & Iron Works, Eau Claire, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.
- CONCRETE REINFORCING BARS.**  
Avery Steel & Iron Co., Minneapolis  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.
- CORNICES.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.
- CORRUGATED IRON, ETC.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Avery Steel & Iron Co., Minneapolis  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.
- CONCRETE REINFORCING.**  
Berger Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.
- CONTRACTORS' SUPPLIES AND MACHINERY.**  
Decker Hardware Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.
- CULVERTS.**  
Berger Mfg. Co., Minneapolis, Minn.  
Victor H. Leeb, Fargo, N. D.  
Piesanz Stone Co., Winona, Minn.  
Klauser Mfg. Co., Dubuque, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.
- CRUSHED STONE.**  
Fowler & Pav., Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.
- DEADENING MATERIAL.**  
Cement Tile Machinery Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.
- DECORATIONS.**  
Odin J. Oyen, La Crosse, Wis.
- DITCHING MACHINES.**  
Bay City Dredge Works, Bay City, Mich.
- DREDGES.**  
Bay City Dredge Works, Bay City, Mich.
- ELECTRICAL ENGINEERING.**  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Northern Electrical Co., Minneapolis, Minn.  
Beck Electric Constr. Kompany, Minneapolis  
ELECTRIC MOTORS AND SUPPLIES  
Elker Electric Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.
- ELECTRIC SPECIALTIES.**  
Elker Electric Co., Minneapolis, Minn.
- ELEVATORS AND ENCLOSURES.**  
Kimball Bros. Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.  
Frank A. Pigeon, Minneapolis, Minn.
- ELEVATOR CABS.**  
N. W. Fixture & Cabinet Co., Mpls., Minn.
- ENGINEERS.**  
Oscar Claussen Engineering Co., St. Paul, Minn.  
Lewis A. Larsen, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.
- EXCAVATORS.**  
Bay City Dredge Works, Bay City, Mich.
- FIRE ESCAPES.**  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.
- FIRE HYDRANTS.**  
Waterous Engine Works Co., St. Paul, Minn.
- FIREPROOF DOORS.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Thorp Fireproof Door Co., Minneapolis, Minn.
- FLUE LINING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Lime Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.
- FIRE PROTECTION APPARATUS.**  
Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.
- FIREPROOFING DOORS AND SHUTTERS.**  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.
- FLOORING.**  
Cement Tile Machinery Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Fama Stonewood Co., Minneapolis  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graff Lumber Co., Duluth, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
I. Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.
- FURRING.**  
Corrugated Bar Co., St. Paul, Minn.
- GAS AND ELECTRICAL FIXTURES.**  
Jerdee & Hendrickson, Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.
- GLASS.**  
American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.
- GRAVITY CARRIER.**  
Minnesota Manufacturers' Association, North St. Paul, Minn.
- HARDWARE TRIMMINGS.**  
Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.
- HEAT REGULATORS.**  
Andrews Heating Co., Minneapolis, Minn.
- HEATING AND VENTILATING.**  
Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.
- HOISTS.**  
H. W. Johns-Manville Co., Minneapolis  
Koehring Machine Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.
- HOSE.**  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Waterous Engine Works Co., St. Paul, Minn.
- INSULATING MATERIAL.**  
Hydraulic Press Brick Co., Minneapolis, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can easily be found by referring to the Alphabetical List of Advertisers on page three.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

## INSURANCE.

Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Des Moines Structural Steel Works.....Des Moines, Ia.

Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
Oberg & Stamer.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Vogenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.

Northwestern Concrete Steel Co.....St. Paul, Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co.....Chicago, Ill.

## LIME.

General Western Material Co.....Waterloo, Ia.  
Fowler & Fay.....Mpls. and Mankato, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speake Lime & Cement Co.....Superior, Wis.  
Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

## MANTELS-GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation.....Iowa City, Iowa

Standard Salt & Cement Co.....Duluth, Minn.

## MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Midway Ornamental Iron Works.....St. Paul, Minn.

Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn.  
Jackson Mineral Paint Works.....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co.....New York, N. Y.

## PIPE-CAST IRON.

American Cast Iron Pipe Co.....Minneapolis, Minn.

## PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.

## PLASTER-WALL.

General Western Material Co.....Waterloo, Ia.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Plymouth Gypsum Co.....Fort Dodge, Ia.

Shakopee Cement Lime Co.....St. Paul, Minn.

Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.

St. Paul Lime & Cement Co.....St. Paul, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## PLASTERING-ORNAMENTAL.

Monarch Co.....St. Paul, Minn.

Roy Curtis.....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co.....Minneapolis, Minn.

## PLASTIC ORNAMENTS.

Monarch Co.....St. Paul, Minn.

K. F. Lott & Co.....Mpls. and St. Paul, Minn.

## PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co.....Chicago, Ill.

Crown Iron Works Co.....Minneapolis, Minn.

## PLUMBING AND HEATING JOBBERS.

National Mfg. & Supply Co.....Mpls., Minn.

## POWER PLANTS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

## REVOLVING DOORS.

Griffin & Boehme.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co.....Duluth, Minn.

Minnesota Roofing & Cornice Works.....St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.

Scribner-Libby Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.

Selden Roofing & Manufacturing Co.....Minneapolis, Minn.

## ROOFING-METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Duluth Corrugating & Roofing Co.....Duluth, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

La Crosse Steel Roofing & Corrugating Co.....W. S. Nott Company, Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.

N. W. Roofing, Cornice & Stamping Works.....Minneapolis, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Barrett Mfg. Co.....New York, N. Y.

Biesanz Stone Co.....Winona, Minn.

Corrugated Bar Co.....St. Paul, Minn.

General Western Material Co.....Waterloo, Ia.

Hydraulic Press Brick Co.....Minneapolis, Minn.

John Leslie Paper Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.

Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## ROOFING AND SIDING-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn.

## SAND AND GRAVEL.

Mason City Sand & Gravel Co.....Mason City, Ia.

## SHINGLES-RUBBER.

W. S. Nott Company.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co.....Winona, Minn.

General Western Material Co.....Waterloo, Ia.

Standard Salt & Cement Co.....Duluth, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co.....Duluth, Minn.

Carr-Cullen Co.....Minneapolis, Minn.

Osgood & Blodgett Mfg. Co.....St. Paul, Minn.

Scott-Graff Lumber Co.....Duluth, Minn.

Shevlin-Carpenter Lbr. Co.....Minneapolis, Minn.

## SEWER PIPE AND DRAIN TILE.

Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.

Lehigh Sewer Pipe & Tile Co.....Fort Dodge, Iowa

Northwestern Lime Co.....St. Paul, Minn.

Plymouth Clay Products Co.....Fort Dodge, Ia.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## SHADE ADJUSTERS.

Wm. J. Work.....St. Paul, Minn.

## SHEETS-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.

Avery Steel & Iron Co.....Minneapolis, Minn.

Crown Iron Works Co.....Minneapolis, Minn.

Berger Mfg. Co.....Minneapolis, Minn.

General Western Material Co.....Waterloo, Ia.

K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Peerless Marble & Tile Co.....Minneapolis, Minn.

Twin City Tile & Marble Co.....Minneapolis, Minn.

## SKYLIGHTS.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Krieger-Jamar Co.....Duluth, Minn.

St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co.....Minneapolis, Minn.

W. S. Nott Company.....Minneapolis, Minn.

## STEEL-BAHS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

Twin City Tile & Marble Co.....Mpls., Minn.

## STONE.

Babcock & Wilcox.....Kasota, Minn.

Biesanz Stone Co.....Winona, Minn.

Edw. Edinger Co.....Cedar Rapids, Ia.

Kettle River Co.....Minneapolis, Minn.

Duluth Cut Stone Co.....Duluth, Minn.

Mantorville Stone Co.....Mantorville, Minn.

New Ulm Stone Co.....New Ulm, Minn.

Pioneer Granite Co.....St. Cloud, Minn.

Sauk Rapids Granite Co.....Sauk Rapids, Minn.

Wm. Penn Stone Co.....Minneapolis, Minn.

The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis, Minn.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Inland Steel Co.....St. Paul, Minn.

## TANKS-STEEL.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis, Minn.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## TANKS-WOOD.

Twin City Silo & Specialty Co.....Minneapolis, Minn.

## TERRA COTTA.

Belt Line Brick Co.....Mpls. and St. Paul

General Western Material Co.....Waterloo, Ia.

Hydraulic Press Brick Co.....Minneapolis, Minn.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.

K. F. Lott & Co.....Minneapolis and St. Paul, Minn.

## THEATER EQUIPMENT.

The Monarch Co.....St. Paul, Minn.

TILE-CLAY-PARTITION AND FLOOR.

Hydraulic Press Brick Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.

North Star Varnish Co.....Minneapolis, Minn.

Twin City Varnish Co.....St. Paul, Minn.

## VALVES.

Crane Co.....Minneapolis, Minn.

Crane & Ordway.....St. Paul, Minn.

Mechanical Specialty Co.....St. Paul, Minn.

## VENTILATING SYSTEMS.

Hackney Ventilating Co.....Minneapolis, Minn.

## WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

## WATERPROOFING.

General Western Material Co.....Waterloo, Ia.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## WATER TOWERS-STEEL.

American Bridge Co.....Minneapolis, Minn.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Machinery Co.....St. Paul, Minn.

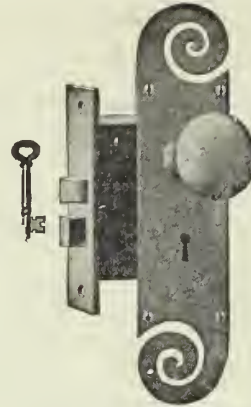


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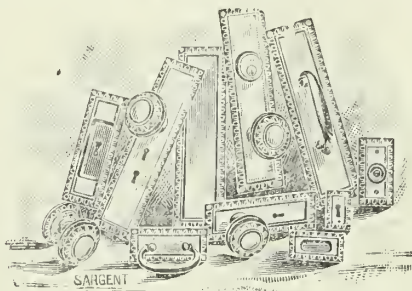
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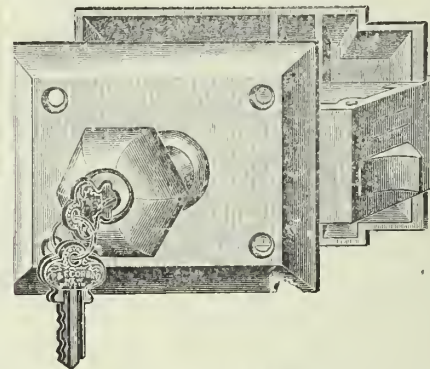
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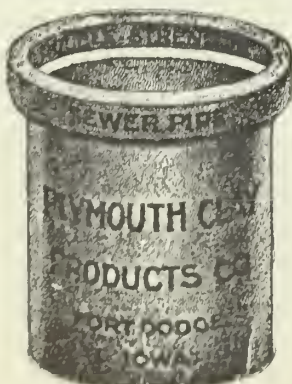
**Large Drain Tile**

**Sewer Pipe**

**Well Pipe**

**Flue Linings**

**Wall Coping**



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Architectural Terra Cotta  
Metal Lath  
Cabot's Creosote  
Shingle Stains and  
Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, JANUARY 9, 1915

NUMBER 6



## EDITORIAL



O. L. COLBURN, Editor

### THE PROPOSED PLASTERING ORDINANCE.

Is the proposed ordinance to regulate plastering in Minneapolis, and provide the building inspection bureau with inspectors of plastering, a public-spirited effort to help and protect the poor man? Or is it a public effort for private interests; a good thing for all; or a good thing for certain people to use for their own advantage? If it is ostensibly for the public good and really for the especial benefit of some people who want to serve their own interests, this piece of legislation is like those roundly condemned measures introduced as statesmanlike, while in fact they serve the interests of corporations.

The proposition to inspect all the plastering jobs in a city the size of Minneapolis needs little comment. One good way to treat it was adopted by Alderman M. P. McInerney, when it came up last week in the council. He opposed the measure on the ground that it was not a proper subject, in his opinion, for municipal legislation. "One commendable feature is that the ordinance does not allow the owner of the building to select the kind of finish he wants," he said. "But on the other hand, I can see where a bum job of plastering may mean 90 days in the workhouse for the man who does it. And I only wonder after hearing the ordinance read that the dressmakers are not here to demand an ordinance fixing the number of stitches the girls must take in every inch of seam.

I believe an ordinance regulating painting should precede this one. This measure will require a city inspector for every hodcarrier in Minneapolis if it is to be enforced, and if it is not, why pass it? I regard claptrap of this kind an insult to the intelligence of this council."

Alderman E. W. Hawley said that, according to Alderman McInerney's theory, a city milk inspector would be required for every cow and argued that the plastering inspection could be enforced through fear of unexpected inspections, as is done in the case of the milk ordinance.

Alderman E. J. Sweeney asked why a minimum of three coats of stucco was decided upon, and Alderman Peterson replied that less than three are worse than useless. The author of the measure insisted that no additional inspectors would be required because the boss and journeyman plasterers would see to enforcement. After a long discussion, the council voted, 12 to 11, to refer the matter to the new council as moved by Alderman J. D. Williams with the suggestion that it can be taken up by the committee revising the city building code. This committee will be appointed following the organization of the new council this week.

Information reaches us from Chicago that the plastering laws there and their enforcement are satisfactory to union labor, but frequently cause the poor man more expense than he wishes to go to on his own house. It requires three coats. He may be willing to get along with one, but a plasterer notifying the city can bring about inspection which will force on the three coats. Sometimes an architect has specified two coats, we are told, and contractors have figured two coats. Then the contractor is compelled by the city to add the third.

One of the leading large plastering contractors of Minneapolis says that all his work is fully inspected now, since in all cases there is an architect whose duty it is to superintend construction.

Nobody conscientiously can oppose a genuine effort to help the poor; and one good way to help them is to watch the halls of legislation to prevent additions to public expense, and the poor man's taxes, by measures that may be based on a religious adherence to the belief that the Lord helps those who help themselves.

### CRYSTALLIZED ARCHITECTURE.

A real ice palace, that is of sufficient size and artistic worth to be called a palace is announced for Lake Nebagamon, Wisconsin. Lake Nebagamon is a city of 500 souls, on the lake of that name, twenty-nine miles east, southeast of Superior. In the common talk of certain persons who do not care how much they injure the dignity of the English, Lake Nebagamon is putting itself on the map by building the first ice palace that ever glistened in the state of Wisconsin.

The cutting of the 6,000,000 pounds of ice which will go into the walls is nearly done and much of it has been placed. A force of 50 men has been kept busy on the work since it was started and this has made possible the speed in construction shown.

A new feature has been arranged since the conception of the scheme in the location of a grand triple arch of ice near the depot which will serve not only to attract attention to the fact that the ice palace is open, but will also point the way to it. This arch is 60 feet in width and has a height of 24 feet. It is constructed entirely of ice.

The enclosure which forms the palace is modeled after the ancient castles of Europe and is 125 feet square. The walls are 28 feet high. The toboggan slide, which is to be one of the amusement features connected with the palace project is 80 feet high and has a double-tracked deck which will carry merry-makers with sufficient momentum to send them a mile out on the lake. The end is up hill, serving the double purpose of slackening the pace of the toboggan and making it possible to construct a return slide which will bring the frosted flyer back to the starting point or near it.

A speedway three miles in length for the use of auto-racers, horse racers and other similar events will also be made a feature. A pavilion has been enclosed in the palace walls for dancing.

Arrangements for the formal opening of the palace are now well under way although not crystallized sufficiently to make any announcements of a definite character. It is proposed to have speakers from Superior and other points. Music will also be provided. The construction of the palace has been under the direction of Capt. A. G. Earnshaw, formerly of Superior, and was promoted and backed by the Commercial club.

In order to be a complete success this sample of ice palace architecture will have to have a continuous freeze,—not necessarily so pronounced as that of the Eskimo ice palaces of Greenland, yet sufficiently developed to be effective.

### ELEGANCE OF SIMPLICITY.

"The most striking feature of construction in current building is the extent to which the note of simplicity in architecture and decoration reflects the improved taste of the American people," said A. M. Bing of Bing & Bing, builders of many fine apartments in New York City. "The tendency to abandon the private house in favor of the apartment expresses not only an increasing demand for conveniences, comforts and luxuries not previously required, but the character of the houses most in demand demonstrates a higher standard of culture and taste.

"The broader possibilities of the country house in the matter of architectural design and decoration are necessarily lost in the city apartment. The selection of an architectural or decorative theme which can be consistently maintained in apartment construction is itself difficult, and it is further questionable if the appeal to the tenant would justify the effort.

"This problem has solved itself in the selection of decorative features so simple as to possess an almost universal appeal, to offer to all tenants equal opportunities for decoration which will express their individual tastes.

"It is gratifying to note that in the finished product the New York apartment possesses a plainness and dignity in particular contrast to the ponderous elegance of recent generations. Architecture and interior decorations express very convincingly the dominant American characteristics of simplicity, directness, and efficiency."



# North Dakota Builders Want Old Lien Law

There was a meeting of North Dakota builders and law-makers at Minot recently, and it appeared that Minot material men, builders and contractors were generally in favor of a return to the old lien law as it existed prior to 1909 under which it was possible for a contractor or material man to put a lien on a building without the consent of the owner.

The occasion was a banquet by the Minot Builders' & Traders' Exchange in honor of the members of the state legislature. Senators and representatives were present. J. A. Roell, president of the exchange acted as toastmaster and Dudley Nash gave the address of welcome, and Francis Murphy responded.

The position of the contractors and material men was ably stated in addresses by R. J. Piper of the Piper Howe Lumber Co., Mr. Colter, contractor, G. S. Woledge, attorney for the Rogers Lumber Co., G. H. Todd of the Minot Electric Co., D. A. Dinnie, contractor, and attorney B. H. Bradford. Each of these spoke of his experiences with the lien law as it has been amended in 1909, 1911 and 1913, and they all agreed that the law in its present form is very unsatisfactory, mainly because there is so much red tape about it as to make it worse than no law at all.

Attorney G. S. Woledge, partner of Representative A. M. Thompson, candidate for speaker of the house, declared in a

most emphatic way that the old lien law as it existed prior to 1909 and as construed by the courts of the state, was a simple, effective, fair law that worked no hardship on anyone. By this law anyone who had sold material for a building or performed any labor upon it, if he did not secure his pay, could file a lien upon the property, which at once became a lien upon the real estate. Under the present law no lien for material can be filed except by the written consent of the owner, which consent must be given before the material is delivered. Mr. Woledge maintained that the old law did not work any hardship upon anyone who was willing to pay his debts. The amendments of 1909, 1911 and 1913, however, made the law so complicated that it failed to serve any good purpose whatever.

R. J. Piper gave an excellent address on the workings of the lien law. Mr. Piper showed that the material men asked for nothing except what is fair for everyone, and he maintained that the law in its present form was unjust.

Representative Smith of Surrey spoke in a very intelligent way about the making of laws. Mr. Dinnie spoke of the experiences of the contractor with the lien law and gave some very interesting remarks about his long experience in the contracting business and also called the attention to the workings of the lien law. The closing address was given by Mr. D. S. Hollenga, who spoke on organizing.

## MODEL CITY TO BE LAID OUT IN MONTANA.

Announcement was made at Billings recently by P. B. Moss that he and his associates had secured about 2,500 acres of land adjoining the junction of the Northern Pacific and Great Northern railroads about 12 miles west of Billings, and contiguous to the terminal yards of the Northern Pacific at Laurel, and that the intention was to found and build a city thereon.

When further interviewed about the matter, Mr. Moss said: "The expression 'God made the country but man makes the town' is one of those general truths that should be accepted with limitations. Man makes the town when nature provides certain conditions that render industry and commerce relatively easy and profitable. Nature designates the site—man lays out and builds the city. But so far, the growth of cities has been the result of accident rather than of design, commerce and industry have followed the lines of least resistance and towns and cities evolved without a basic plan, resulting in a waste of money and energy.

"This is all wrong, and the new city of the twentieth century will be built by man on carefully thought out and scientifically arranged plans. The model city will be built from the ground up after plans providing for every possible contingency which may arise from future industry and traffic and the sanitary, social and educational welfare of its future inhabitants.

"Such a city is to be laid out and built in Montana.

"Ever since Mr. James J. Hill secured control of the Colorado and Southern line from Denver to Galveston and projected the Burlington system south from the above junction, I have always maintained that we would see a large traffic point developed at this place.

"The building of the Panama canal is going to bring about traffic and distributing centers in the interior of the vast region lying between the Mississippi and Missouri rivers and the Pacific ocean. The opening of this new ocean-to-ocean route is about 400 miles shorter than any other route from Galveston or any other Atlantic port to the trade centers of the Orient. This transcontinental route is destined to become one of the world's great commercial highways and puts the new city as the gateway, from an industrial and commercial standpoint.

"While the site of the new city is most advantageously located for manufacturing and wholesale distribution requirements and was selected with these objects in view, the success of the undertaking is not based upon the location of factories, although special inducements will be held out to the right sort of industries of all kinds. Surrounded on every side by a large agricultural section the growth of the new city will not be dependent upon manufacturing industries alone, for a careful analysis of the statistics of agricultural districts which are adapted to diversified farming, shows that urban centers that have a trade zone radius of ten miles will support a trade center of ten thousand population and upwards. It is also a notable fact that transportation facilities fix the location of trade centers in accord with the immutable laws of gravitation.

"Here we have not only a strategic location from a trans-

portation point of view, but we have an agricultural territory capable of the most diversified and intensive farming under which the highest possible yields are obtainable and which are insured by the presence of an unlimited water supply, guaranteeing a thriving city of moderate size.



Oscar M. Frykman.

gates. There will be an electrical banquet Wednesday evening, Jan. 27; an address on the manufacture of rubber covered wire, with motion pictures, by Everett Moore of the Simplex Wire & Cable company; a joint dinner with the American Institute of Electrical Engineers, Jan. 28, address by Charles L. Pillsbury, consulting engineer, Minneapolis, on Principles of Public Utilities, Valuation and Rate Making.



Fred G. Dustin.

## A MODEL KITCHEN NEARLY ALL WHITE.

Recent improvement made in the model kitchen of the Minneapolis Gas Light Co. in their building on 7th st., have transformed it until all the walls and a great deal of the furnishings are white. It is now regarded as one of the most up-to-date kitchens in the country. Most of the improvements were made by introducing as a material for wainscoting shelves and cabinets, the material called vitrolite. This is a white glass, presenting virtually a solid color, and having the smoothness of glass. The clean-looking, sanitary effect of using this material is very attractive. The Gas Company's kitchen walls above the wainscoting are white tile, and white enamel paint. The big hotel range has large patches of white in it, and there is very little wood anywhere in the kitchen. The arrangement of articles of equipment is scientific on plans by Mrs. Jones, the company's kitchen expert; she also designed the special cabinet for flour and sugar bins, which is made of vitrolite and heavy tin, painted white with metal trimmings.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

In electing A. P. Cameron president for the current year, the St. Paul Builders' exchange recognized his many years of prominence as a St. Paul contractor, and bestowed the highest office on one of the first members. Mr. Cameron has been in the organization ever since it was started. An idea of his record as a leading builder of the state capital city may be obtained from the following list of some of the larger structures he has put up. About half the buildings at Fort Snelling, the city hospital, the Orpheum theater, the Shubert theater building, the Ford automobile branch service building, Commercial business block. Mr. Cameron also has had general contracts from the state and from the government, besides the work at Fort Snelling. The list of miscellaneous buildings constructed by Mr. Cameron in St. Paul during his twenty-seven years there as a contractor would fill many pages. He lived in Minneapolis three years. His firm has offices in the Ryan Annex.



A. P. Cameron.

### MINNEAPOLIS BUILDERS' EXCHANGE.

Pres. Maurice Schumacher of the Minneapolis Builders' Exchange was re-elected at the annual meeting Tuesday. The other officers are: John McDonald, vice president; Wm. Penn, second vice president; C. F. Splady, treasurer; L. M. Osborne, sergeant-at-arms; N. W. Nelson, Walter Thorpe and D. Wyman, directors; O. M. Jones, John Hernlund, Arthur Brin, E. E. Leighton, Geo. Cook, on complaints committee. President Schumacher's address was a review of the year with some excellent suggestions. Secretary Eugene Young reported 740 plans during the year figured by 5,127 bidders; 218 meetings held; 283 members; 21,380 pieces of mail sent out; 75 per cent space of the builders' exhibit rented and a prospect of all exhibits in place for the spring business. The exchange is entering on its twelfth year. "A large evening" was announced for Saturday evening, Jan. 9, for the Builders' Club by President James R. Ralph, who is slated to succeed himself. There will be a theater party and a large feed to finish the large evening at the Odin club. Bowling was resumed Thursday night.

### ST. PAUL BUILDERS' BOWLING RECORD.

Score Jan. 4: Plumbers & Steamfitters, 919, 864, 844, total 2,627, won 3, lost 0, vs. Hardware, 808, 835, 811, 2,454, won 0, lost 3; Bond, 888, 868, 898, 2,654, won 2, lost 1, vs. Contractors, 842, 910, 811, 2,563, won 1, lost 2; Lumbermen, 312, 799, 890, 2,051, won 2, lost 1, vs. Brick & Stone, 787, 851, 839, 2,477, won 1, lost 2; Plumbers & Steamfitters, 849, 841, 873, 2,563, won 0, lost 3, vs. Steel & Iron, 879, 864, 853, 2,696, won 3, lost 0.

Standing: Plumbers & Steamfitters, won 35, lost 13, percentage 729; Cement, Stone & Brick, 34, 14, 708; Bond, 27, 21, 562; Sheet Metal, 24, 24, 500; Contractors, 21, 27, 435; Lumbermen, 19, 29, 395; Steel & Iron, 19, 29, 395; Hardware, 13, 35, 270; team high score three games Plumbers & Steamfitters, 2,601; team high score, one game, Contractors 958; individual high score, three games, J. Thomson, 643; in individual high score, one game, J. Shiely, 258.

Next game, Jan. 11: O'Brien's, Sheet Metal vs. Cement, Stone & Brick; Bond vs. Hardware. Pfister's, Plumbers & Steamfitters vs. General Contractors; Steel & Iron vs. Lumber.

C. E. Howell, member of the Wyoming state board of water control and local manager for the Eden Valley Irrigation Co., was in Casper last week on his way home from the head office of the company in Chicago. He reported the completion of the first unit of the big irrigation project, including a dam to divert the waters of the Big Sandy river to a reservoir that has been constructed and the building of the main canals and laterals sufficient to irrigate 21,000 acres of land.

The Sheridan, Wyoming, Iron Works is constructing a big siphon for the Alliance Ditch Co., which will be placed in position in the spring as soon as the weather permits.

J. H. Flock Construction Co., Chicago, will bid on the big Talmage ditch, says a statement from Nebraska City, Neb.

The contracting business of Larson & Berg at Deer Lodge, Mont., is now conducted by Mr. Berg. Mr. Larson has gone to Provo, Utah.

City Chemist Victor Roehrich of St. Paul has gone to Passaic, N. J., to watch the manufacture of an order of fire hose for St. Paul.

Walter S. Mummery, taxidermist of Minot, N. D., has secured a patent for a hydro-carbon burner from the U. S. patent bureau Washington, D. C. The device can be attached to any ordinary stove or range. It burns one part low grade oil to about three parts of water, the water being changed into the component gases. It is claimed that the invention will revolutionize the modern system of heating and lighting. The cost of operation will be about a cent an hour for heating an ordinary stove and if it comes up to the expectations of the inventor, will be a long stride toward reducing the high cost of living. Mr. Mummery has succeeded in interesting financial aid in the enterprise and will start manufacturing in the spring.

The report of Secretary A. M. Simmers, read at the banquet of the Northwestern Granite Manufacturers' association Dec. 30 at St. Cloud, Minn., showing that the total value of production from the St. Cloud quarries during 1914 was \$1,015,415 as against \$1,009,338 in 1913 created enthusiasm. The report also showed that in 1914, 2,445 people were supported directly by the granite industry as against 2,421 in 1913. Among the speakers was Willis L. Williams, of the St. Paul Pioneer Press.

The Minnesota state sanitarium commission will ask the legislature for \$750,000, to aid counties in building sanitariums. The 1913 session appropriated \$500,000. Thirty-six counties favor building, thirteen have sanitariums under way, and three have them finished.

Improvements estimated to cost \$6,000,000 to \$7,000,000 in the Anaconda Copper company's ore reduction plant and appurtenances at Great Falls are contemplated, according to recent announcement by President John D. Ryan. These gigantic expenditures are expected to begin coincident with the anticipated higher prices and more permanent copper metal demand in the United States and European countries.

Grand Island Culvert & Metal Works, Grand Island, Neb., has been reorganized and the company will be incorporated. Capital stock is \$25,000. Addition to present plant will be made, buildings entirely remodeled and new machinery installed.

What is intended to be the largest grain elevator in the world is planned for South Chicago by the Armour Grain Co. It will be built on the Calumet River near the turning basin, and the first section erected will hold 3,000,000 bushels. It will be constructed so that additions may be made to three times this capacity.

Frank K. Lane, secretary of the interior, has sent to congress a supplemental estimate of \$900,000 for the Fort Laramie unit of the North Platte project in Nebraska and Wyoming in addition to the \$348,000 already appropriated for other units. The project is of great importance to Nebraska for through its consumation 107,000 acres of land in Western Nebraska, south of the Platte river, will be under irrigation. The Nebraska project will extend from the state line to a point as far south as Gering.

A small railroad operating an oil-burning locomotive on the Tahoe National Forest, California, had a breakdown during the past summer and burned wood instead of oil for one day. On this day fifteen fires started along the right-of-way. During the preceding year, only one fire occurred near the railroad and it was not thought that the engine was responsible for that one.

Edward E. Gillen, of Racine, Wis., has organized a corporation with a capital stock of \$50,000. Its principal place of business will be in Milwaukee. The company will engage in marine construction, building docks, breakwaters, etc. During the past year the company has done a great deal of work for the Milwaukee park board on the shores of Lake Michigan near the southeastern part of the city. Besides Mr. Gillen, J. H. Harrington will be one of the principals of the new corporation.



The Minnesota supreme court has taken action in the appealed case of a property owner against a firm of contractors, of the city where the accident occurred, and the owner of a team, engaged in constructing a building. A cement mixer was operated by a gasoline engine located near the building, and adjoining the alley. The team was driven in and became frightened from the noise of the gasoline engine and mixer, turned around and ran into a horse. The owner sued for damages. The jury returned a verdict for him against all three defendants for \$250, and all three of the defendants appealed. The supreme court held that the evidence did not justify a finding that the defendant team owner was negligent, and held that the city was not liable, but that the evidence justified the finding that the contractors were negligent. They will have to pay the full amount of the verdict.

"Milestones" is the title of a cheerful reminder from the Gardner Hardware Co. that we have entered upon another year. For the Gardner Hardware Co. this is the 30th year. The company says: "It seems a most fitting occasion to thank our many valued customers, who, by their patronage have enabled the Gardner Hardware Co. to achieve the success that has been its good fortune in the past, and so we add to our expression of good will at this time of New Year's greeting, hearty thanks for the cordial business relationship that has been our mutual pleasure and profit."

#### ARCHITECTS AND ENGINEERS.

Prof. W. H. Kavanaugh head of the experimental department of the College of Engineering of the University of Minnesota, has been elected chairman of the Minnesota section of the American Society of Mechanical Engineering.

Prof. Frederick M. Mann, head of the department of architecture of the College of Engineering, of the University of Minnesota has returned from the meeting of the Association of Collegiate Schools of Architecture and also the annual convention of the American Institute of Architects, held in Washington, D. C.

D. T. Workman, a Minneapolis artist, is painting a mural decoration for the small children of Irving school, 31x45, showing the four seasons. He will paint a mural decoration in the East high.

J. J. Davy, highway engineer at Preston, Minn., was in the city this week.

Members of the good roads committee of the Civic and Commerce association of the city of Minneapolis visited the roads laboratory of the experimental department of the College of Engineering of the University of Minnesota. The particular interest centered on the recently installed instruments and machines for the testing of road materials. The College of Engineering is giving much consideration to the good roads problem in the state of Minnesota.

Associate Prof. Adolph F. Meyer of the college of engineering of the university of Minnesota has written a paper for

publication on the subject of "The Calculation of Run-off from Rain Fall and Other Physical Data." The paper will have a length of perhaps one hundred and fifty printed pages and deals with a problem which prior to Mr. Meyer's work has not been adequately solved; many engineers have worked on this problem but its complexity has made the solution somewhat indeterminate.

Harry W. Jones, architect, Minneapolis, has returned from Chicago. He found business interests expecting a general betterment soon and many shops and factories resuming work. Improvement among the architects is expected to follow the restoration of normal conditions among the industries and other business.

R. L. Fitzgerald, of Madison, Wis., has been appointed business manager of Winnetka, Ill., by Sherman M. Goble, the village president. Mr. Fitzgerald is a mechanical engineer. He was a member of the railroad commission of Wisconsin for some time.

#### A TILE HOUSE SAVES FUEL.

A notable instance of easy heating and fuel economy is furnished by H. M. Spencer of 316 W. Minnehaha boulevard, Minneapolis. The walls of his house were built of Denison 8-in. triple-air-space tile, and the record made in keeping the house warm when the temperature was 18 degrees below zero, indicates the value of these houses to save money in winter. Dec. 30, when the thermometer outdoors showed 18 below, the thermometer in the house showed 72 above, and the thermometer on the boiler showed that the temperature of the heating plant was 111 degrees. The Mueller system is used. As a rule the heating plant requires from 140 to 160 or 180 degrees, according to exposure of house, material, age, and other conditions; and 120 degrees has been the lowest considered possible. Mr. Spencer's house contains eleven rooms. The heating equipment is a 1200-foot boiler with 650 feet radiation.

#### OVER THE RIVER.

Theodore Roosevelt discovered the River of Doubt. The Building Age of New York city has located St. Paul,—over the river. In the January issue, after a note about the Minneapolis Builders' exchange, it says:

Across the river the members of the St. Paul Builders' exchange have a bowling club and they meet weekly with results which are somewhat astonishing in the scores rolled up.

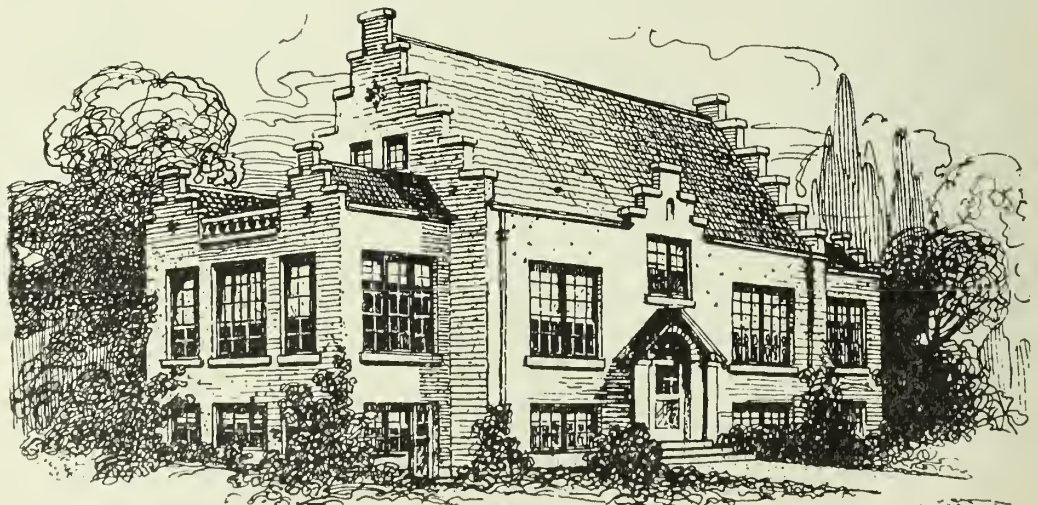
#### LARGE ORDER FROM IDAHO.

The Andrews Heating company are working on a \$2,000 order for the S. & S. Company, Midvale, Idaho. The following also placed orders for Andrews hot water heating plants: T. W. Thompson, Princeton, Minn.; Dan Sullivan, Tecumseh, Neb.; E. G. Hoff, Alcester, S. D.; Joe. Greisch, Caledonia,

#### HOME FOR EPILEPTICS.

The accompanying cut is an illustration of the building to be erected in the spring at Mission Association, at Axtell, Neb., or as soon as funds and plans are completed for work to begin.

This building is to cost about \$10,000 and will be a three story brick, 30x60 feet, and will give shelter for about 16 epileptics besides the rooms and offices for the nurses and attendants. Forty acres of ground near Axtell have been purchased as a site for the many contemplated buildings and conveniences for the home. As the association's only income is from contributions it is not known how fast the institution will grow, nor how great will be the need in the future. Olaf Z. Cervin, architect of the home, is also architect of a hospital to be built at Moline, Ill. Work will start next March. It will be built to accommodate sixty patients and doubled later. It will be modern, fireproof, monolith or linoleum floors, flushed casings, flush paneled doors. Boiler house in separate building.



HOME FOR EPILEPTICS  
AXTELL, NEB.

OLAF Z. CERVIN, ARCHT  
ROCK, IA AND ILL.

Minn.; Abram Groening, Hillsboro, Kan.; Oscar Euren, Fargo, N. D.; W. Jacob Riggs, Raccoon Island, Ohio; Gust Holm, Lytton, Iowa; H. A. Miller, Mona, Mont.; Mrs. A. Andrews, Thorp, Wis.; J. H. Parris, Anoka, Minn.; R. Mueller & Son, Alma, Wis.



# GEORGE WASHINGTON MEMORIAL, WASHINGTON, D. C.

The design of the Washington memorial, at Washington, D. C., is unique in that it is the only proposed structure of its kind in the world because of its shape and its arrangement. The main auditorium is oval in shape and will seat more than twelve thousand persons, while surrounding the main chamber is a series of smaller chambers of varying sizes. The unique feature of the memorial is that for the first time the architects have taken into consideration, and are making use of fundamental rules of acoustics. Touching this feature, Edgerton Swartwout, of New York, the architect of it, said:

"I think no building has yet been designed wherein the architect knew exactly in advance just what acoustical effect was to be obtained. The usual practice has been to follow some accepted and successful interior layout, and to hope for the best. In even so recent an instance as a very late New York theater the acoustics have been admittedly poor and correction of the defects does not seem to have been possible. Professor Sabine has worked out a comprehensive system of acoustics, and we have laid out the memorial along the definite lines he has laid down. It is now quite possible to foretell just what effect will be gained. This has been taken advantage of in the design also of the Missouri capitol."

Work upon the Washington memorial will be begun, it is hoped, in the spring. (Picture from The Monitor, Boston.)

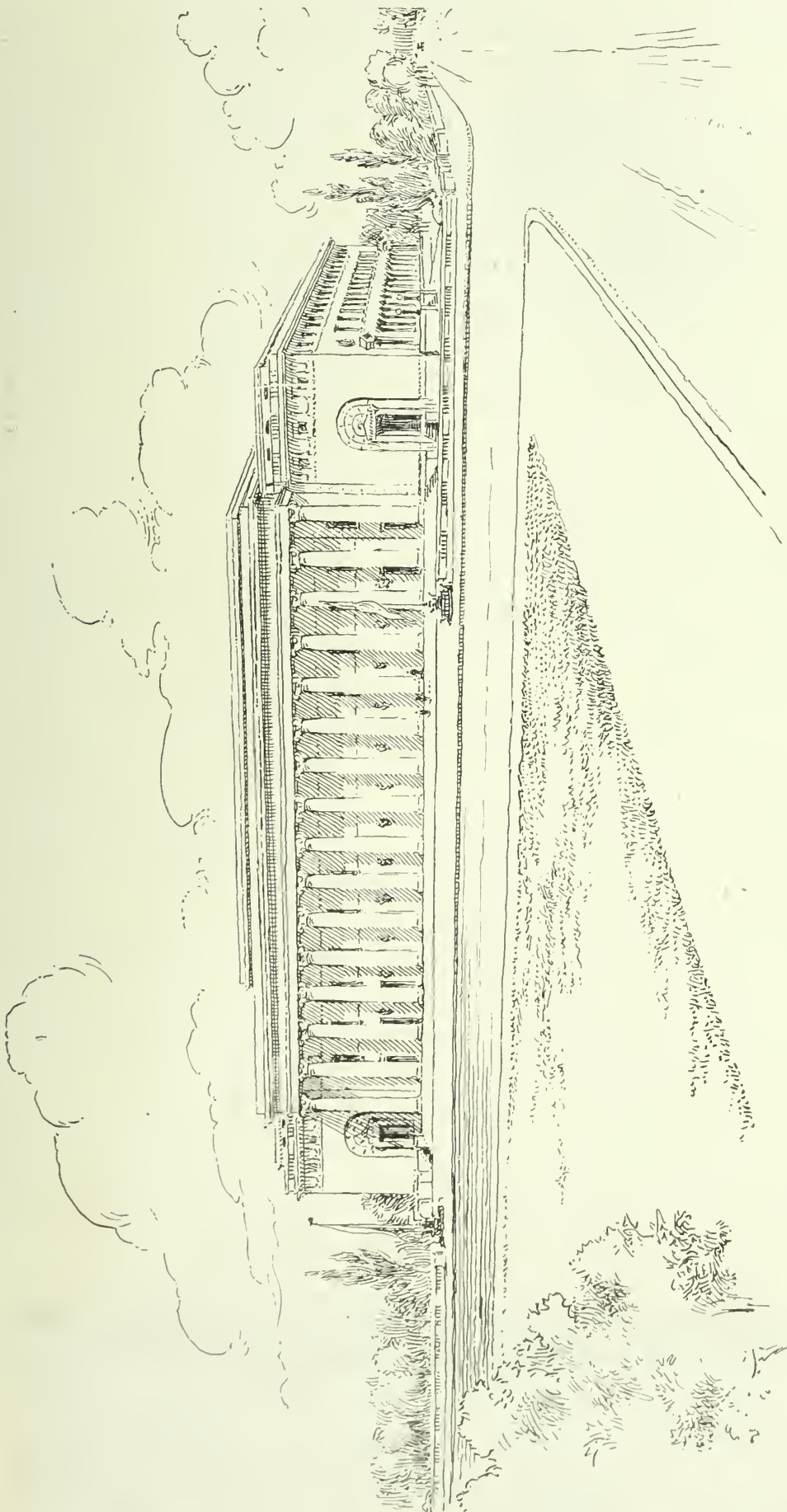
## ELEVATING STANDARDS OF PUBLIC TASTE.

In the course of an address by Charles H. Bebb, architect, Seattle, during the recent meeting of the Architectural League of the Pacific Coast, he declared that it was part of the architect's duty to lend his efforts toward elevating public taste in design. He decried conditions now existing wherein a large percentage of the building work is done by "architect-contractors" and advised the public to beware of certain self-styled experts. He declared that the modern architect is suffering from "over modesty" and that the time is now opportune for letting the public know he is in the running.

Among other things, Mr. Bebb said:

"How then can the relation between the client and the architect in commercial undertakings involving the employment of the latter be ameliorated?"

"The first step toward this end is to thoroughly inform the building public what an architect, of high professional standing, really does for the fees that are paid him. The measure of the success of the architect who does commercial work is the measure of the success of the buildings he erects. The commercial building of today is a complex study. It involves a thorough grounding in the sciences





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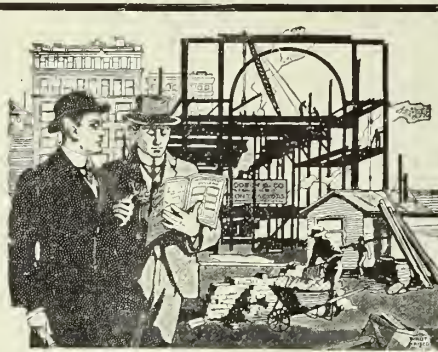
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**OFFICIAL ADVERTISEMENTS** for pro-  
posals will be published in this department  
on receipt of copy with order from author-  
ized official, building committee, architect or  
engineer.

**RATE:** 15c per line each insertion. No  
discounts allowed. Several insertions are  
customary to insure full and fair competi-  
tion.

**PUBLICATION DAY:** Last forms close  
10 a. m. Friday. Copy received up till that  
hour will be published in The Bulletin and  
delivered to subscribers the next day. Copy  
received later cannot be published till issue  
of the following week.

**MINIMUM CHARGE:** No advertisement  
published for less than \$2.00 each insertion.

**NIGHT LETTER OR PHONE:** When too  
late to send copy by mail to reach us by 10  
a. m. Friday, forward by night letter or  
long distance telephone.

**PRINTED SLIPS** containing the ad, are  
furnished to officials, architects and others  
interested, for distribution by them, without  
extra charge.

## Proposal Index

Bids Close		See Imp. Bulletin Dated
Jan. 11.	Judicial Ditch 1, Owa- tonna, Minn. ....	Dec. 26
Jan. 12.	Light fixtures, school, Ely Minn. ....	Jan. 2
Jan. 13.	Mech. System for Mail, P. O., Minneapolis, Minn. ....	Dec. 19
Jan. 18.	Addition to Soils building, Univ. of Wis., Madison, Wis. ....	Dec. 12
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Jan. 18.	U. S. Custom House, Re- modeling, etc., St. Louis. ....	Dec. 26
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Jan. 20.	Judicial Ditch 23, Be- midji, Minn. ....	Dec. 26
Jan. 20.	Judicial Ditch 23, Be- midji, Minn. ....	Dec. 26
Jan. 20.	Judicial Ditch, 23, Be- midji, Minn. ....	Dec. 26
Jan. 23.	Church, Young America, Minn. ....	Jan. 9
Feb. 1.	Gymnasium, Cooperstown, N. D. ....	Jan. 9
Feb. 12.	School, Sioux Falls, S. D. ....	Jan. 9
Feb. 18.	Govt. Bldg., Lincoln, Neb. ....	Jan. 9
Feb. 27.	Govt. Bldg., Miles City, Mont. ....	Jan. 9

## PROFESSIONAL DIRECTORY

### ENGINEERS

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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.  
Phones: N. W. 3902. T.-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

L. L. Chadwick, 108-10 E. Lake st., 1-story plaster veneer stores (2); address owner, 112 E. Lake.....	1,500
Lulu V. Forsyth, 3417 42d av. S., 1-story frame dwl.; F. O. Baker, builder; address owner, 3752 Minnehaha.....	1,200
F. O. Baker, 4043 Minnehaha av., 1-story frame dwl.; F. O. Baker, builder; address owner, 3752 Minnehaha.....	1,200
R. F. Burr, 1416 23d av. NE., 1½-story plaster veneer dwl.; Axel Peterson, builder; address owner, 2246 Lincoln.....	2,500
Chase Investment Co., 1818 Stevens av., 3-story brick apartments (38); C. C. Chase, builder; address owner, 614-16 Security Bank bldg.....	25,000
Chase Investment Co., 1826 Stevens av., 3-story brick apartments (38); C. C. Chase, builder; address owner, 614-16 Security Bank bldg.....	25,000
Chase Investment Co., 1830 Stevens av., 3-story brick apartments (38); C. C. Chase, builder; address owner, 614-16 Security Bank bldg.....	25,000
A. N. Nordin, 3645 25th av. S., 1½-story frame dwl.; address owner, 3434 35th av. S.....	2,000
John Daniels, 3746 22d av. S., 1½-story frame dwl.; address owner, 3741 21st av. S.....	1,800
L. A. Kastor, 3829 Cedar av., 1½-story frame dwl.; Carl Anderson, builder; address owner, 3833 Cedar av.....	2,000
Joseph Marlingo, 1819 4th st. NE., 2-story brick veneer duplex; P. C. Giguere & Sons, builders; address owner, 1813 NE. 4th.....	3,800
John H. Larson, 3204 33d av. S., 1½-story plaster veneer dwl.; address owner, 40 Eastman av.....	1,500
C. H. Fagerstrom, 3816 Bloom av., 2-story plaster veneer duplex; address owner, 13th av. S.....	4,000
J. T. Elwell, 722-24 Central av. SE., electric freight elevator; Gust Lagerquist, builder; address owner, 636 Andrus bldg.....	1,100
W. K. Morrison, lessee, 17 S. 7th st., electric freight elevator; Gust Lagerquist, builder; address owner, 514-20 N. 3d.....	1,150
Pinkelstein & Reuben, 46 and 48 S. 7th st., alterations install new entrance doors, etc.; Splady, Albee & Smith, builders; address owner, 414 Plymouth bldg.....	1,200
E. J. O'Brien and S. G. Harris, 916-26 Marquette av., 1-story brick addition to store; P. O. Halladen, builder; address owner, 3308 Portland av.....	8,000
Albert T. Enblom, 2412 S. Sheridan av., 1½-story plaster veneer dwl.; address owner, 2412 Sheridan av. S.....	3,500
Chas. L. Frohn, 3747 N. Vincent av., 1½-story frame dwl.; address owner, 3751 Vincent av. N.....	1,200
Anna B. Teslow, 733 E. 41st st., 1½-story frame dwl.; address owner.....	1,000
Albert Hjelmstad, 2130 E. 35th st., 1½-story frame dwl.; address owner, 3212 1st av. S.....	2,050
Erik A. Bjorkman, 3513 Longfellow av., 1-story frame dwl.; address owner.....	1,600
G. M. Rollo, 3027-29 39th av. S., 2-story plaster veneer dwl.; address owner, 3125 36th av. S.....	3,000
Dr. A. F. Blmquist, 1924-30 Aldrich av. S., 2-story brick veneer addition to rear of apartment building (17 apartments); address owner, 1517 Portland av.....	23,000

School board program for 1915, as proposed at recent meeting: Intermediate school, between Nicollet and Oakland avs., 34th and 39th sts., \$275,000; Intermediate school, near the Holland and Schiller, \$150,000; New Longfellow school, near 32d av. and 31st st. with 12 rooms, \$120,000; 8-room building on the John Ericsson site, \$80,000; new 8-room Hiawatha school, 42nd st. and 49th av. S., \$80,000; 4-room addition to the Horace Mann, \$25,000; 4-room addition to the Margaret Fuller, \$35,000; 6-room addition to the John A. Johnson, \$60,000; 4-room addition either to the Lincoln or Willard, \$40,000; 4-room addition to the McKinley, \$50,000; 4-room addition to the Tuttle, \$30,000; gymnasium addition to the Adams, \$20,000; four portables near 3rd st. and 30th av N., \$25,000; four portables at 39th st. and 22nd av. S., \$10,000; five portables at 35th st. and 42nd av. S., \$10,000.

\*Ernest Kennedy, architect, Essex building, is preparing plans for a fireproof store building, 1115 Hennepin for E. C. Gale, 800 Security Bank building; 2-story and basement, foundation for additional story, 46x100, and addition to the rear, 15x35, 1-story, concrete foundation, concrete floor in basement, concrete and composition floor, first story; concrete, second story; steam heat; plate and prism glass, copper metal bars, brick walls, concrete skeleton, tar and gravel roof, press brick front, stone trim, galvanized iron cornice, birch finish, steel sash, wire glass, electric freight elevator, steel and slate stairs, sprinkler system, gas, electric light, plumbing, lavatories, hot water tank, hard wall plaster on furring or hollow

brick; to be completed by April 1; plans ready Jan. 20; architect will let work.

Subcontracts awarded on the Phelps Store building, Nicollet between 9th and 10th, by the general contractor, J. H. Brown Co., Lumber Exchange, include: terra cotta, Johnson, Jackson & Corning, Lumber Exchange; Fenestra steel sash, Chas. Houston, 214 Plymouth building; structural steel; Crown Iron Works; Turner Mustroom system of reinforced concrete; rolled steel sash, O. E. Symons, 838 Plymouth; hardware, W. K. Morison Co.; tile and marble, Twin City Tile & Marble Co.; Kawneer bars, roofing, galvanized iron etc., Selden Roofing Manufacturing Co., 76 Western; excavation, S. J. Groves & Sons, Kasota block; plastering and painting not let cork tile not let; Tyrie & Chapman, architects, Auditorium block.

\*Keith & Purdy, architects, have prepared preliminary sketches for a large brick colonial house, 2½-story, 28x56, with a 1-story addition; also a large colonial porch and terrace, 12x56; three brick and tile fireplaces, extra plumbing and tile work; estimated cost, \$20,000; also sketches for a large brick, 2½-story colonial residence, 44x45 exclusive of porches; extra plumbing with fireplaces and slate roof; estimated cost, \$15,000; also a large English half-timbered residence, 28x40, brick fireplaces, extra plumbing, etc.; cost about \$8,500.

C. B. Strays, architect, 8th floor, Security Bank building, will take bids later on the plumbing, heating, wiring of the garage to be built at 112-4 Harmon pl., for F. B. Knoblauch, Security Bank building, general contract let to W. F. Doeltz & Son, contractors, 303 Plymouth building; brick, steel, 50x150, concrete footings, rubble foundation, walls, plate glass front, concrete stone trim, composition roof, ornamental brick front, cement floor, in basement, maple floors; general contract, \$11,790; total cost about \$16,000.

\*C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a modern residence on Lowry Hill for N. H. Emmons, 1736 James av. S.; brick veneer, 37x31, 2-story, hot water heat, fireplace, tile bath; \$6,000; owner lets all work; also has furnished plans for a modern residence in Lynnbrook, N. Y., for Perry B. Bowel; 34x32, shingle walls, white enamel throughout, fireplaces, hot water heat, sleeping porch, sun room; \$6,500.

\*Keith & Purdy, McKnight building, have furnished special plans for a 2-story, brick, colonial residence for Laban Funk, Waynesboro, Pa.; 32x28, with front and rear porches; exterior walls of hollow tile with facing of colonial brick, oak floor and finish, first floor; kitchen in pine, natural; second floor of birch with pine trim; white enameled birch doors stained mahogany; slate roof; hot air heat; estimated cost, \$4,000.

\*Plans have been made by Keith & Purdy, architects, McKnight building, for a frame cottage for E. M. Berg, Long Prairie, Minn.; 26x28; hardwood floor and finish, first floor; pine finish, second floor; estimated cost, \$3,500; hot air heat; also for bungalow for Irving W. Kelly, Kansas City, Mo.; 26x30, with hot air heat, Georgia pine floors and finish throughout; estimated cost, \$3,000.

\*Plans furnished by Keith & Purdy, architects, McKnight building, for a 1½-story, frame, colonial cottage for Emery W. Osburn, Rochester, N. Y.; 36 feet 6 inches by 41 feet 6 inches; full basement, laundry and hot water heat; oak floors and finish, first floor; second floor finished in pine enameled, with birch floors; extra plumbing; brick fireplace; estimated cost, \$5,000.

F. W. Kinney, architect, 1003 Plymouth building, is preparing plans out about Feb. 1, for a store and office building at Adams, Minn., for Krebsbach Bros.; 50x96, 2-story, all modern, fireproof floors, two stores, plate glass front, metal bars, Luxfer prism lights, flat roof, steam heat, hardwood throughout, running water in offices, concrete foundation; owner will let work.

F. W. Kinney, architect, 1003 Plymouth building, has prepared plans for an office building at Austin, Minn., for the city water works; 34x65, 1-story, brick, asbestos shingle roof, oak finish, vault, fixtures, tile floors, electric lights, plate glass, concrete foundation; plans out at once.

The general contract for the construction of the new domestic science building at Stout Institute, Menomonie, Wis., has been awarded to Madsen Bros., Plymouth building. The building will be 228x125, 5-story, brick and concrete, and cost about \$200,000.



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

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### Proposal Advertisements For Bids

CHURCH.  
Detroit, Minn.

In February bids will be solicited for erection of a Catholic Church at Detroit, Minnesota. Plans and specifications at Builders' Exchange, St. Paul and Minneapolis; Charles Cannon, Pastor.

#### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 26, Beltrami County, Minnesota.

Notice is hereby given that the undersigned auditor of Beltrami County, Minnesota, will on Wednesday, January 20, 1915, 2:30 P. M., at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 26, located on the range line in Tps. 159 and 160, R. 31 and 32, 5½ miles southwest of Baudette and 2½ miles southeast of Pitt, Minn., Beltrami County, according to the plans and specifications of the engineer now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 16.4 miles long, and the estimated number of yards of dirt to be

excavated is about 115,582 cubic yards; total estimated cost of the construction of said ditch being about \$27,645, including highway. Maximum cut 6.2 feet, average cut 4.8 feet. Bids will be received for the work as one job or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county, if the successful bidder fails to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any and all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,

Auditor of Beltrami Co., Minn.

E. J. BOURGEOIS,  
Engineer.

#### BIDS FOR SCHOOL BUILDING. Sioux Falls, S. D.

Notice is hereby given that sealed proposals for the complete construction of a school building at Sioux Falls, South Dakota, to include all labor and material, will be received by the Board of Education of the Independent School District of the City of Sioux Falls, at its office in the High School Building in said city, until four o'clock in the afternoon of the 12th day of February, 1915. All bids must be in strict accordance with the plans and specifications for said building prepared by Patton, Holmes & Fliin, architects, which may be seen at the following places, to-wit: the office of the said Board of Education in the city of Sioux Falls, South Dakota; the office of the said architects at Number 8, South Dearborn Street, Chicago; the Builders' Exchange, Minneapolis, and F. W. Dodge Company, Minneapolis.

A certified check for one thousand dollars (\$1,000.00) must accompany each bid. All checks of unsuccessful bidders will be returned to them within three

days after the awarding of the contract. The successful bidder will be required to enter into a contract satisfactory to the said Board of Education and to give a bond satisfactory to said Board in the full amount of the contract price, which bond shall in all respects comply with the laws of the state of South Dakota.

The right is reserved to reject any or all bids.  
Board of Education of the Independent School District of the City of Sioux Falls, South Dakota,

By W. B. FULLER,  
Clerk.

#### NOTICE TO CONTRACTORS. Gymnasium, Cooperstown, N. D.

Sealed proposals will be received by Berg Bros., at Cooperstown, N. D., up to 1:30 p. m., of Monday Feb. 1, 1915, for the erection and completion of the A. H. Berg memorial gymnasium.

Plans and specifications may be seen at the office of Berg Bros., Cooperstown, N. D., and at the office of Hancock Bros., Fargo, N. D.

Each bid to be accompanied by a certified check for \$300.00, made payable to Berg Bros.

The check of successful bidder will be forfeited should he fail to enter into contract and furnish a surety bond for the faithful performance of the work.

The right to reject any or all bids is reserved.

By order of Berg Bros., Agents.  
HANCOCK BROS., Archts.

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., January 2, 1915.—Sealed proposals will be opened in this office at 3 p. m., February 27, 1915, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of a two-story and basement, stone or brick faced building of 6,500 square feet ground area; fireproof construction, composition roof, for the United States postoffice at Miles City, Montana. Drawings and specifications may be obtained from the Custodian at Miles City, Montana, or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after January 15, 1915. O. WENDEROTH, Supervising Architect.

(Continued on page 16.)

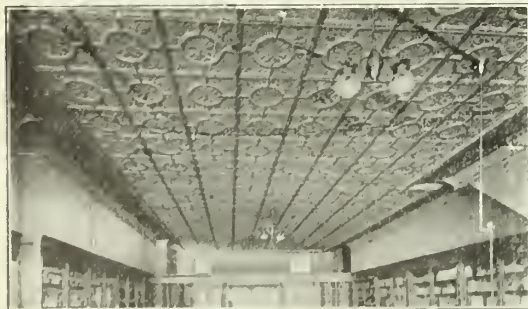
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and Ornament Co.  
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SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY



Albert T. Emblom is building modern dwelling at 2412 S. Sheridan, 22x32, 1½-story plaster veneer, hot water heat, tile bath, mantle, \$3,500; plans by Percy Crozier, Plymouth building, contract to Nelson-Emblom Construction Co., Plymouth building.

Madsen Bros., contractors, Plymouth building, are low bidders for the garage, stable, wagon shed and dry cleaning building for the Waldron Co., 1028 Mary pl. at the new plant on Lake st.; plans by Downs & Eads, architects, 721 N. Y. Life building.

Bids received by the board of charities, City Hall, until 2 p. m., Jan. 12, for changes in elevator machinery at the city hospital; check for 5 per cent; plans and specifications with Chas. L. Pillsbury Co., consulting engineers, Metropolitan block.

Elevated railway or sub-way for rapid transit between Minneapolis and St. Paul is urged by Mayor Nye, in his annual address to the council; also by prominent St. Paul business men, and line may be a combination of elevated road and subway.

Complete official returns from the building inspector's office for 1914 make a fine showing for the city in a year of many great difficulties for business. There were 6,015 permits, valued at \$15,214,525. The total for 1913 was \$12,857,935.

Chase Investment Co. will build three large apartment buildings at 1818, 1826 and 1830 Stevens av., brick, steam heat, modern, 38 apartments each, laundry, electric light and gas; cost \$75,000; plans by C. C. Chase, who builds.

Plans have been prepared by C. A. Boehme, architect, Ka-sota block, for a new front at 323 20th av. N., for the Minneapolis Brewing Co.; all tile, plate glass, metal bars, leaded glass. Plans ready this week.

\*G. M. Pollo, 3125 36th av. S., is building a modern dwelling at 3027 39th av. S., 24x38, 2-story, plaster veneer, hot water heat, electric light, gas, mantle, laundry trays, sleeping porch; \$3,000; day labor.

An addition of 17 apartments will be built on the building at 1124 Aldrich S., by Dr. A. F. Elmquist, brick veneer, 100x40, 2-story, all modern; to be completed July 1; cost \$23,000.

A large factory is reported as in prospect, to be the largest yet built in the city, site of 100 acres, said to be needed; address Civic and Commerce Association, McKnight building.

\*A fifteen-cent hotel may be built in Minneapolis by Chas. F. Dawes, Chicago National Bank, Chicago, who has built a similar institution there. Work to be started in the spring.

\*Jos. Marlinga, 1813 N. E. 4th, is building a duplex, brick veneer, 24x38, hot water heat, modern, \$3,800; general contract to Peter C. Guigure & Son, Plymouth building.

\*C. H. Fagerstrom, 3600 16th av. S., is building a 2-story, plaster veneer duplex at 2816 Bloomington; 26x44, hot water heat, modern; \$4,000; day labor.

Albert J. Helmstad is building a 1½-story plaster veneer dwelling, hardwood trim, plumbing, gas, 22x26, at 2130 E. 35th st.; no architect; day labor.

\*Long, Lamoreaux & Long, 830 Hennepin, will have plans out next week for general figures on the Sykes building.

Fire damaged a dormitory at Stanley Hall, 22d near Nicollet; loss \$30,000, insured; Miss Olive Evers, owner.

Park board will spend \$48,000 to improve Dean blvd.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.  
Phone: N. W. Cedar 1683.  
Mail or telephone news not later than Wednesday

### Building Permits

J. De Haan, 703 Orleans, 1½-story frame dwl., Winona near Manomin; Victor J. Sandell, builder.....	1,200
Perry Fry Co., 415 Commerce building, builder, 1½-story frame dwl., Thomas near Hamline.....	3,000
A. Lelanev, 1½-story frame dwl., St. Anthony near Fairview; Perry Fry Co., builders.....	3,000
Erickson Carlson, 669 York, builder, 1½-story frame dwl., Roblyn near Finn.....	2,500
A. Bowman, builder, 1022 Mathilda av., 1-story frame dwl., Hand near Hatch; L. Reily, builder.....	1,500
G. N., N. P. and First Nat. Bank, eight 13-story hydraulic plunger passenger elevators, Jackson near 4th; Standard Plunger Elevator Co., builder.....	168,000
G. N., N. P. and First Nat. Bank, two 13-story hydraulic plunger freight elevators, Jackson near 4th; Standard Plunger Elevator Co., builder.....	30,000
G. N., N. P. and First Nat. Bank, hydraulic plunger sidewalk elevator, Jackson near 4th; Standard Plunger Elevator Co., builder.....	7,000
Strandlof Bros., 1576 Wesley, builder, 1½-story frame dwl., Aldine near Capitol and Minnehaha.....	2,000
John Skoglund, 1066 DeSoto st., builder, 2-story brick dwl., DeSoto near Cook.....	4,000
St. Paul Gas Co., 1-story steel and brick engine and boiler	

house, gas holder No. 2; Griel Cons. Co., builder.....	2,000
Mabel F. Bowe, 1916 Douglas, 2-story frame and stucco dwl., Carroll near Finn; C. Bowe, builder.....	4,000
Wm. O'Gorman, 29 W. 10th, 2-story frame and brick veneer dwl., Portland near Moore; Paul Steenberg Cons. Co., builder.....	4,500
Mrs. Mathilda Matson, 627 Wells, 2-story brick veneer dwl., Geranium near Walsh; Olson & Erickson, builders.....	5,000
Mr. Yangbaktom, 2-story frame and stucco dwl., Roblyn near Finn; Houghid & Rosengren, builder.....	3,900
A. Ostron, 1½-story frame dwl., Hudson near Maria; A. R. Carlson, builder.....	2,000
Geo. Cook, 748 University av., 1-story frame dwl., Capitol near Syndicate; A. M. Sorenson, builder.....	2,650
L. E. Highmark, 1130 Jessie, builder, 1½-story frame dwl., Arcade near Clear.....	2,000
John Engebo, 378 Lookout, builder, 1½-story frame dwl., Minnehaha near Hamline.....	2,000
H. K. Lutz, 2107 Iglehart, 2-story frame dwl., Carroll near Cleveland; Wedin & Rudeen, builders.....	4,700

J. C. Niemeyer architect, Dispatch building, is preparing plans for remodeling store front and addition for S. Hill, 25 W. 7th st., brick and cut stone, plate glass, new foundation, hot water heat; plans out this month; also sketches for additional cafe for Jno. Stoyka, University av.; frame and stucco, 43x47, structural steel, composition flooring, fireplace, ornamental fixtures, Rococo wall radiation, tar and gravel roof; plans out this month.

J. C. Niemeyer, architect, Dispatch building, has prepared plans of a duplex for Geo. Milton, 29x46, cost \$7,500, located at Portland and Wheeler, brick veneer and stucco, hot water heat, leaded glass, tile bath floors, hardwood trim, sideboard, medicine and linen cabinets, concrete foundation, contract awarded to Bungalow Construction Co., 271 Dispatch building.

J. C. Niemeyer, architect, Dispatch building, has prepared plans for E. W. Kohlsaat, to be built on Lincoln av., 28x28, frame and stucco, cost \$4,200; fireplace, concrete foundation, hot water heat, hardwood trim and finish, sleeping and sun-porch, sideboard, medicine, linen and kitchen cabinets, Flax-olenm; contract to J. E. Donlin, builder, 1039 Ashland av.

John Erickson, 767 E. Maryland, has furnished plans and Olson & Erickson, 767 E. Maryland, have the contract for a modern dwelling on Geranium between Walsh and Werde for Mrs. Matilda Mattson, 627 Weller; brick veneer, 2-story, sleeping porch, sun parlor, hot water heat, fireplace, tile bath, laundry, leaded glass, sideboard, cabinets, \$5,000.

J. C. Niemeyer, architect, Dispatch building, has drawn plans for C. M. Stearns, to be built on Linwood pl.; frame and stucco, 27x38, cost \$3,500; brick fireplace, Murphy in-a-door bed, columned arches, bookcases, sideboard, medicine, linen and kitchen cabinets, concrete foundation, hot water heat, hardwood trim; owner to build in spring.

Plans for the new union station are now before the city council and a committee of the Commerce association will act with the city in examining the plans; must be accepted by the city and recommended by it to the war department at Washington D. C. There are several plans, known as Nos. 1, 2, 3, and each will be considered.

J. C. Niemeyer, architect, Dispatch building, has prepared plans for Geo. Milton for English cottage, 26x32½, cost \$4,000; brick veneer, stucco and half timber, to be located on Wheeler av., concrete foundation, hot water heat, hardwood trim, fireplace, sideboard, sleeping porch; contract to be let soon.

H. A. Miller, architect, Pittsburgh building, is preparing plans for a brick church at Osseo, Minn., 28x40, concrete foundation, full basement, tower, shingle roof, furnace heat, fir and yellow pine seats, for 150; owner, Lutheran congregation; address care architect; spring work; plans out about Feb. 1.

J. C. Niemeyer, architect, Dispatch building, has prepared plans for J. E. Donlin, 24x26, to be located on Ashland av., cost \$3,500; frame, concrete foundation, hot water heat, hardwood trim, sideboard, medicine, linen and kitchen cabinets, sleeping porch; owner will build; bids in for material.

\*Work will start April 1 on new Emporium department store building, northeast corner of 7th and Robert; cost, \$200,000; Angus McLeod, president, Emporium Co.; 5-story, 75x112, fireproof, modern; steel contract awarded to St. Paul Foundry Co.; terra cotta, American Terra Cotta Co.

A. M. Sorensen, 717 Central, has the contract for a bungalow on Capital, between Briggs and Syndicate, for Geo. Cook, 784 University, 26x38, concrete foundation, hot water heat, hardwood floors and trim, fireplace, tile bath, electric light, gas, laundry, art glass; cost \$2,650.

J. C. Niemeyer, architect, Dispatch building, has prepared plans for brick veneer garage for Thos. Franklin, Hamline and Midway Parkway, 30x38, tile roof, beveled plate glass, Bowser oil and gas pumps, Rococo wall radiation, cost \$3,000; contract to Cast Stone Co., E. 4th st.

A modern residence to cost \$4,700 is being built by H. K. Lutz, 4107 Iglehart, 2-story, frame, 26x36, hardwood throughout hot water heat, mantle, sun-room, enclosed porches,



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Surety and Fidelity Bonds.**

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MINNEAPOLIS

### NOTICE.

#### Bids For Sewer System.

Sealed bids will be received by the village of Sandstone, Minnesota, until 8:00 p. m., January 18th, 1915, for the construction of a sewer system consisting of 2,748 feet of 10-inch sewer 3,422 feet of 8-inch sewer, 2,835 feet of 6-inch sewer and 34 manholes.

Plans and specifications may be seen at the office of the Improvement Bulletin, Minneapolis, Builders' Exchange, Duluth, or at the office of the Village Recorder, Sandstone, Minn.

CHRIS RUDISUHLE, Vil. Recorder.

**TREASURY DEPARTMENT**, Supervising Architect's Office, Washington, D. C., December 31, 1914.—Sealed proposals will be opened in this office at 3 p. m., February 18, 1915, for the extension and

remodeling (including mechanical equipment, interior lighting fixtures, and approaches) of the United States postoffice and courthouse at Lincoln, Neb. Drawings and specifications may be obtained from the custodian at Lincoln, Neb., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 28, Beltrami County, Minnesota.

Notice is hereby given that the undersigned auditor of Beltrami County, Minnesota, will on Wednesday, January 20th, 2:30 P. M., 1915, at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 28, lo-

## PROPOSALS

cated in Tps 161, R. 31-32, Tp. 162, R. 32-33, four miles west of Baudette and one Branch two miles west of Pitt, Beltrami County, according to the plans and specifications of the engineer now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 28.9 miles long, and the estimated number of yards of dirt to be excavated is about 204,618 cubic yards; total estimated cost of the construction of said ditch being about \$43,818, including highway. Maximum cut 8.2 feet, average cut 4.8 feet. Bids will be received for the work as one job or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county if the successful bidder fails to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any and all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,

Auditor of Beltrami Co., Minn.

E. J. BOURGEOIS,

Engineer.

(Continued on page 18.)

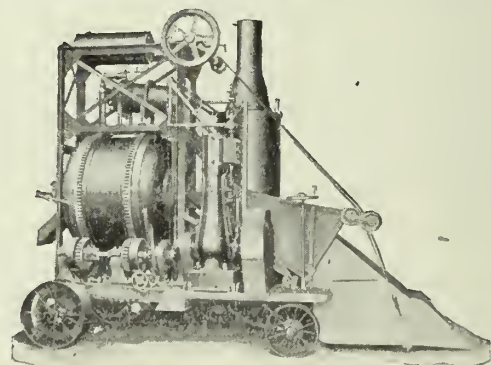
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**KOEHRING MACHINE COMPANY, Milwaukee, Wis.**

H. B. JONES, Dist. Mgr.

350 Security Bank Building

Minneapolis, Minn.



cabinets, sideboards, bookcase, concrete foundation; Weden & Rudeen, contractors.

Houglid & Rosengren, Minneapolis, have the contract for a modern dwelling on Roblyn between Finn and Cretin, for M. Langhakton, 2234 Logan, 2-story, frame, stucco, hot water heat, tile bath, laundry tray, electric light and gas, \$3,900.

A new bank building is planned for the corner of 10th and Jackson; 3-story, brick, in connection with commission row, recently announced on this site; Christ Hanson, owner, Minnehaha apts., Central Park pl.

A. F. Gauger, architect, Scandinavian American Bank, announces bids will be received until 12 m., Jan. 23, for construction of the Evangelical Lutheran church at Young America, Minn.; official advertisement in the Improvement Bulletin this week.

Lauer Bros. have the contract for the foundation of the Bradley-LeFebvre building, W. 6th and 7th st., 3-story, brick; general plans out next week for figures, Hartford & Hausler, architects, Pioneer building.

Eight passenger elevators, two combination elevators, and two sidewalk elevators, will be installed in the Hill Railroad building; cost \$205,000, permit issued; Standard Plumber Co., Worcester, Mass., contractor.

Strandlof Dior, 1676 Wesley, has the general contract to build a 1½-story frame dwelling, 22x26, hardwood trim, plumbing, gas; on Aldine between Capital and Minnehaha, \$2,000.

A. R. Carlson, 1044 Hudson, has the contract for 1½-story dwelling, 24x28, hardwood trim, plumbing, gas, concrete foundation, on Hudson between Maria and Bates, for A. Istrom; \$2,000.

John Engebo, 378 Lookout, is building a modern dwelling on Minnehaha between Hamline and Syndicate, 25x27, hardwood trim, hot water heat, gas, electric light, frame, \$2,200.

L. E. Highmark, 1130 Jesse, is building a modern cottage, on Arcade between Clear and Cottage, 1½-story, frame, hot water heat, hardwood finish, bath, gas, electric light, 24x30.

A 4-story brick business building is planned for Griggs and University av., by the Minnesota Chemical Manufacturing Co.; work to start in April. Herman Barna, president.

Alfred H. Wheeler, architect, 416 Globe building, is completing plans for a double bungalow; owner's name withheld; frame, stucco, modern, 26x54, 2-story and basement; four rooms second floor, six rooms first.

\*Education Commissioner Yoerg recommends steel frame school desks for the city and will urge that all bids be rejected on that account.

About \$7,000 will be left for a second public comfort station after the one in the City Hall grounds is built.

Fire damaged the Sanitary dairy farm, Hazel and Wakefield, \$6,500; Geo. McMahon, owner.

An ordinance for a municipal dock has been introduced by city commissioner O. E. Keller.

City has ordered the bridge built by the St. Paul road over Marshall av., within a year.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

C. W. Valentine, architect, 428 Jefferson st., will take bids about Jan. 15, for the erection of a \$25,000 residence for Mr. and Mrs. Chas. Stolper on Lake Drive, near Lake Bluff; hollow tile and stucco construction, 2-story, 38x74, with hot water heat, vacuum cleaning system, incinerator, ice machine, etc. The same architect awarded contracts on a \$15,000 residence and garage for John D. Babcock, 127 2d st., on Prospect pl., East Milwaukee, as follows: carpenter, O. Nelson; tile, Wisconsin Mantel & Tile Co.; sheet metal, Biersach & Neidermayer; electrical, Co-operative Electrical Co.; plumbing, David Polacheck & Co.

Contracts for the erection of a store, office and flat building for the Realty, Finance & Security Co., at Teutonia and Keefe av., Milwaukee, have been awarded by Val. A. Siebert, architect, as follows: mason, cut stone, Wm. Dallmann, carpenter, Wm. Bubltz; cement and concrete, Frank Reichard; tile, Wisconsin Mantel & Tile Co.; iron and steel, Bayley Structural Iron Co.; heating, B. C. Freeman; plate glass, Wm. F. Zammach; composition floors, Milwaukee Flexolite Co., previously noted.

Clare C. Hosmer, architect, 909 First National, is preparing plans for a residence and garage costing \$17,500 for Wm. Glasscot on Peverly rd., E. Milwaukee; it will be of brick veneer construction, 2-story, 36x37, with hot water heating;

the same architect is nearly ready for bids for the erection of a \$7,500 residence and garage for J. J. Stamm in Wauwatosa, already noted.

F. Drophlshagen, architect, awarded following contracts on garage and shop for Henry Alefs at Meinecke av. and Grant blvd.: mason, cut stone and iron work, Emil Grether; carpenter, C. A. Kleppe; sheet metal and roofing, Consolidated Sheet Metal Works; plumbing, Jos. Wittig; heating, Independent Power & Heating Co.; electrical, Herman Andrae.

Leenhouts & Guthrie, architects, 421 Jefferson st., expect to be ready Feb. 1, for bids for the erection of a \$60,000 apartment house for Frank C. Courtenay and Charles Gilman on 12th st., between Grand av. and Wells sts.; brick construction, 4-story, 34x140, to contain 30 apartments; steam heating system.

The board of park commissioners, Milwaukee, estimates the cost of completing Lake Shore drive to the point opposite the foot of Wisconsin st. at \$150,000 and intends to ask for bids for its construction as soon as possible so the work may be started about May 15; F. P. Schumacher, city hall, secretary.

E. Brielmaier & Sons, architects, University building, are taking bids until Jan. 28, for the erection of a 4-story brick and concrete addition to the convent of the sisters of St. Francis; dimensions 72x75; also for the erection of a brick and concrete boiler house, 1-story.

Oscar Wenderoth, supervising architect, treasury department, Washington, D. C., will close bids Jan. 22 for installing complete an electric freight elevator in the appraiser's storehouse to be erected in Milwaukee at once, at a cost of \$100,000.

The general contract for the erection of a \$20,000 residence for Mrs. C. Hinkel and Leonard A. Meyer, 450 E. Water st., at Hackett and Linnwood av., was awarded to O. H. Bosserst Co. by Carl Barkhausen, architect, 121 Wisconsin st.

L. G. Widule, county clerk, will take sealed bids until Jan. 18 for equipping the dormitory and hospital building of the home for dependent children, Wauwatosa, with steel instrument cabinets, steel shelving, sterilizers, cabinets, etc.

George Zabel, architect, 629 Walnut st., is taking bids for the erection of a frame duplex for Chas. Freund and Julius Lewis on 37th st., between Clarke and Center sts., to cost \$5,000; furnace heat.

C. H. Tharinger, architect, will be ready in a few days for bids for the superstructure of a solid brick and concrete warehouse, 34x60, 3-story, for Andrew Matson at Racine, Wis.

Nicholas Lauer, 1712 Galena st., will erect a \$2,500 cottage at 32d st. and Auer av., doing the carpenter work himself.

F. H. Paeske, 699 29th st., will build a frame bungalow, 25x56, costing \$4,000, on 31st st., near Elm st.

## OMAHA, NEB.

Contract for erection of the gymnasium at Bellvue college has been let and work will commence soon; cost \$20,000.

The Coad estate plans to build about 24 brick and stucco houses in the W. Farnam district in Creston subdivision; construction to start in the spring.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. Phones, Grand 1304, Melrose 1247.

Bids received by public works department, until 10 a. m., Jan. 11, for furnishing f. o. b. Gary, 400 feet 6-inch vitrified pipe; 3,900 feet 8-inch pipe; 7 feet 10-inch vitrified pipe; 700 feet 12-inch vitrified pipe; 1,300 feet 15-inch vitrified pipe; 3,000 feet 18-inch vitrified pipe; 700 feet 20-inch vitrified pipe; 125 feet 24-inch vitrified pipe; 175 feet 8x6-inch Y's; 50 18x6 Y's; 54 feet 18x6 T's; 102 barrels cement; 40,000 brick, 32 manhole covers and rings, 60 cubic yards sand; R. Murchinson, commissioner.

Plans and specifications for addition to the Lincoln school for junior high school purposes will be submitted to the board of education, in about two weeks; address Superintendent Penfield.

Permit issued to Mrs. Jennie D. Brewster for a 2-family apartment building, cost \$6,500; plans prepared by F. G. Germain, architect and general contract let to Wm. Fawcett.

Duluth Crushed Stone Co. is building a plant on 57th av. W., cost \$30,000, to be ready April 1.

A frame dwelling is being erected by O. N. Frederickson, cost \$2,500.



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### Proposal Advertisements For Bids

#### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 23, Beltrami County, Minnesota.

Notice is hereby given that the undersigned, auditor of Beltrami County, Minnesota, will on Wednesday, January 20, 1915, at 2:30 P. M., at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 23, located in Township 159-160-161, Range 33-34, one-half mile from railroad, Beltrami County, according to the plans and specifications of the engineer, now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 40.6 miles long, and the estimated number of yards of dirt to be excavated is about 316,337 cubic yards; total estimated cost of the construction of said ditch being about \$59,949.70, including highway, and clearing about 22 miles of creek. Width of base is 3 to 4 feet, and average cut is 4.6 feet. Bids will be received for the work as one job, or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county if the successful bidder fails

to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any or all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,

Auditor of Beltrami Co., Minn.

E. J. BOURGEOIS,  
Engineer.

#### CHURCH.

Young America, Minn.

Sealed proposals will be received by F. F. Kloth, Secretary of the Building Committee of the Ev. Luth. Church, Young America, Minn., until 12 m., Jan. 23, 1915, for the erection and completion of a Church Building at Young America in accordance with plans and specifications furnished by A. F. Gauger, Architect, St. Paul, Minn.

All bids to be sealed and marked "Proposal for Church" and addressed to F. F. Kloth, Cashier, Bank of Norwood, Nor-

wood, Minn. Bids to be submitted only on form of bid supplied by the Architect, no other form will be considered. Bids to be accompanied by a certified check of one per cent (1%) of the amount of the bid, payable to F. F. Kloth, Secretary of the Building Committee, which check will be returned when building contract is executed.

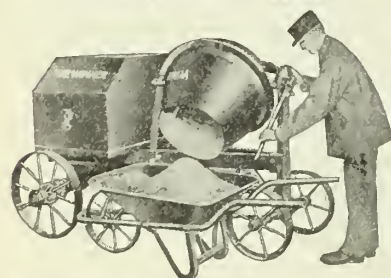
Copies of above plans and specifications may be seen at the Builders' Exchange of St. Paul, at the residence of Theodore Buegel, Young America, Minn., at the office of F. F. Kloth, Bank of Norwood, Norwood, Minn., and at the office of A. F. Gauger, Architect, St. Paul, Minn.

Parties desiring copies of plans and specifications for personal use may obtain same on application to the Architect on payment of five (\$5.00) dollars cost of duplication and a deposit of twenty-five (\$25.00) dollars, the latter to be remitted upon return of plans and specifications not later than date of opening bids. Successful bidders must furnish the Building Committee with a Surety Company Bond in seventy-five per cent (75%) of the amount of the contract.

The right is reserved by the Building Committee to reject any or all bids.

By F. F. KLOTH,  
Secretary, Building Committee.

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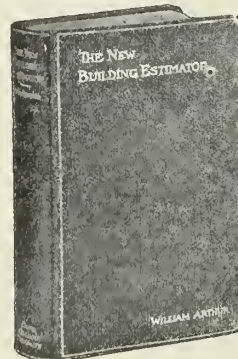
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Minneapolis, Minn.

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## SUPERIOR, WIS.

J. C. Crowley, president, Rotary club, conferred in Chicago with representatives of the capitalists who are being interested in the proposed \$250,000 hotel at Superior. The site will be at 11th and Tower, northwest corner and the real estate deal is being conducted by G. G. Newton & Co.

Building operations during 1914 amounted to \$1,545,784, an increase of 200 per cent over 1913, and 100 per cent over the best previous year, 1909; over 1,000 permits were issued, and more residences were built than ever before.

Public improvements planned for the spring include: remodeling of Lamborn av. bridge, with electric machinery; paving Belknap st., W. 7th and W. 5th; extending water mains and sewers to Itasca.

Plans for a 2-story office building, cost \$10,000 have been prepared by E. S. Radcliffe, and construction will begin in the spring.

A wire and nail mill may be established in Superior; local capitalists are considering a proposition to form a stock company.

A new exchange building will be built by the Wisconsin Telephone Co., to cost about \$50,000, site purchased, 50x140.

## SIoux CITY, IOWA

Architects and contractors say that 1915 will witness the greatest building movement that Sioux City has had in years. Several of the more costly structures already have been developed as to plans. The new court house, to cost \$500,000 will be the only county building to be erected. W. L. Steele, has been employed as architect to draw plans. The Elks' lodge will erect a club house at a cost of about \$150,000.

Geo. C. Call has announced intention to build a \$60,000 annex to the Jackson hotel. St. Vincent hospital will have a new building at a cost of \$100,000. The Knights of Columbus and the Eagles are planning new club houses. Plans and specifications have been prepared for a new North Western depot at a cost of \$100,000.

The city council held a special meeting last week to hear recommendations from citizens concerning the improving of Perry creek. The Civil Engineers' club, who recommended that the creek be placed in a conduit, was present at the meeting.

New church buildings planned for the coming year are the Trinity Lutheran, First Methodist Episcopal and the First Baptist.

Building permits of the week include Win S. White, house, 115 S. Steuben st.

## FARGO, N. D.

VICTOR H. LEEBY.

Builders' and Traders' Exchange

Forum states that its report of giving the contract as awarded to McDermott & Greenshields for plumbing in new Ford building, was incorrect, contract was awarded to T. P. Riley of Fargo.

## PUBLIC BUILDINGS

**B. C., Vancouver**—Plans for the proposed civic center are to be prepared by Thos. Kerner and M. Matoes, city, to cost about \$2,500,000; also, plans have been submitted to the marine department of the Dominion government, at Ottawa, Ont., for the reinforced concrete lighthouse to be erected at Amphitrite Point at a cost of \$59,000.

**Ariz., Tucson**—Bonds voted for a city hall building to cost \$50,000, and fire house and purchase of auto truck to cost \$20,000; address city clerk.

**Iowa, Boone**—Guy A. Logan, state adjutant, recommends the erection of a fireproof armory building and definite action will probably be taken at once; address city clerk.

**Minn., Morris**—County board will build for the accommodation of the county poor, site to be in Morris; F. E. Ware, county auditor.

**Mont., Red Lodge**—City is discussing a new town hall; address city clerk.

**Neb., College View**—Plans approved for library building and an estimate will be called for at once; Prof. W. E. Aul, chairman library board.

**Neb., Kearney**—The state normal board has ordered pencil sketches to be made for new auditorium and gymnasium buildings; cost will be about \$85,000; plans to be submitted to the board at its next meeting.

**Neb., Leshara**—Plans to be prepared at once for office building and city hall, and contract will be awarded in the early spring; address city clerk.

**Neb., O'Neil**—Plans and estimates being prepared by Architect Lowrie, Omaha, Neb., for the remodeling and improving of court house building; cupola, stairway, fireproofing, etc.

**N. D., Manning**—The Dunn county jail burned; total loss; T. Leroy Evans, county auditor, Manning.

**Ore., Portland**—Commissioner Bigelow of the department of finance, has decided to extend metal sheds similar to those recently erected between 3d and 4th st. E. from 3d to 1st st. at an estimated cost of \$3,600.

**S. D., Castlewood**—Special election to be held Jan. 26 to vote on issuing bonds for \$60,000 for site and building for permanent county court house and jail; Guy Osbon, auditor, Hamlin county, Castlewood.

**Texas, Bryan**—Lowest bids received by supervising architect, Washington, D. C., for constructing U. S. post office at Bryan were as follows: Geo. A. Shaul, Seneca, Kans., \$41,353, using limestone and making building stucco faced, or \$43,373, building brick faced; I. B. Hubbard Bryan, \$44,084, using sandstone and making building stucco faced, or \$48,264, building brick faced.

**Wis., Argyle**—J. R. Law, architect, Madison, is preparing plans for a garage and auditorium building, costing \$15,000, for Phillipson Bros.; brick and hollow tile, 64x90, 2-story, with steam heating.

**Wis., Racine**—It is likely that the Racine county board of supervisors will call for new bids for remodeling the courthouse under \$9,000 appropriation, as the lowest bid under the original call was \$14,000.

**Wis., Shawano**—The public library board has engaged Claude & Starck, architects, Madison, Wis., to prepare plans for the new \$10,000 library building, to be 34x66, brick and stone, 1-story; bids will be taken about Feb. 1 by B. Boyer, chairman.

**Wis., Sparta**—Plans for remodeling of the Baptist church into a city hall about ready to submit to bidders; plans by Mr. Parkinson of La Crosse.

**Wis., Sparta**—Plans for converting old Baptist church into city hall, prepared by Parkinson & Dockendorff, architects, La Crosse, Wis., have been accepted.

### BIDS WANTED.

**Kans., Leavenworth**—Bids received by superintendent of prisons, department of justice, Washington, D. C., until Jan. 22, for metal lath and plastering of the U. S. penitentiary here.

**Minn., Duluth**—Bids received by Kelly & Williams, architects, city, about Jan. 20, for a 4-story fireproof, brick and concrete armory building, 200x145.

**Mont., Miles City**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., Feb. 27, for the construction complete, including mechanical equipment, lighting fixtures and approaches, of a 2-story and basement, stone or brick-faced building of 6,500 square feet ground area; fireproof construction, composition roof, for the U. S. post office at Miles City, Mont.

**Okla., Lawton**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., March 6, for the construction complete, including mechanical equipment, except elevator and approaches, of the U. S. post office and court house at Lawton, Okla.; 3-story and basement building; ground area 6,700 square feet; fireproof construction; stone.

**Wis., Oconto**—Bids received by H. C. Orr, county clerk, until Jan. 19, for steel filing cases and roll shelves in county treasurer's office.

**Wis., Racine**—Bids received for electric wiring and heating and ventilating work included in the general repair scheme on the Racine county courthouse by Walter Peterson, secretary, until Jan. 11; plans by Chandler & Park, architects, Racine.

### CONTRACTS AWARDED.

**Kans., Wisfield**—General contract for U. S. post office building to the Dieter-Wenzell Construction Co., at approximate cost of \$75,000; brick, stone, cement, steel, hardwood, heating, lighting, plumbing etc.; expect to start work on superstructure by April 1; contractor buying material.

**Minn., Minneapolis**—Contract to Carroll Electric Co., Washington, D. C., for installation of a terra cotta duct from the old to the new postoffice building in Minneapolis; cost to be \$4,985.

**Mo., Ozark**—Contract to S. R. Williams, city, for county



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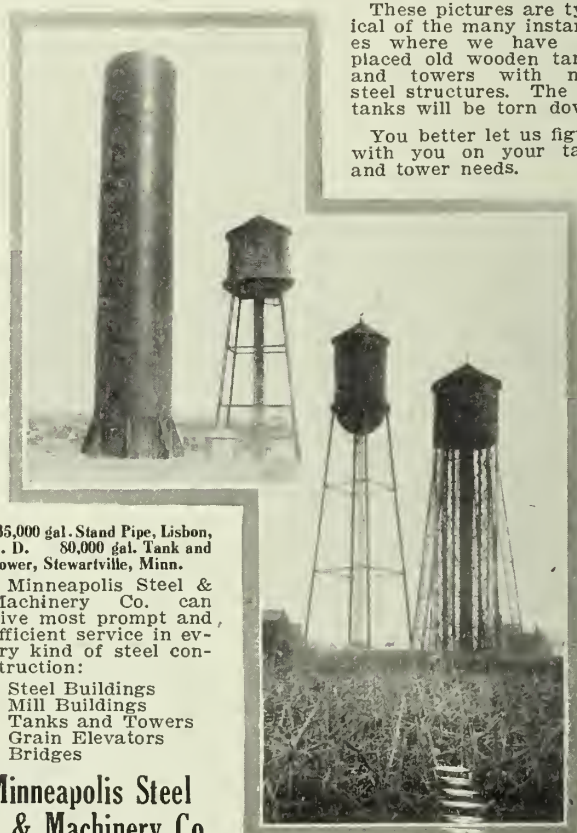
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almshouse at \$11,235; brick, stone, steel, heating, plumbing, lighting, etc.; contractor buys material.

**Neb., Red Cloud**—Contract to Platt & Frees for the fireman's building; 25x60, 1-story, pressed brick and cement blocks.

**Neb., University Place**—Commercial club endorses Carnegie library proposition unanimously.

**Texas, Galveston**—Contract for erecting the combined city hall and auditorium to Gross Construction Co., Waco, at \$205,693.

**Wash., Olympia**—Contract to Hans Pederson, Seattle, for remodeling state library, \$11,000; also, contract has been awarded to the General Fireproofing Co., Youngstown, Ohio, for the installation of steel stack equipment in the temple of justice, \$22,000.

**Wash., Tacoma**—Contract to Joseph Hanson & Co., for modern dairy barn at county farm, at \$7,298, for main unit.

## THEATRES AND HALLS

**Iowa, Blanchard**—Odd Fellows will build to replace lodge home recently burned; cement block construction; address the secretary.

**Iowa, Blanchard**—Odd Fellows planning to raze their building recently badly damaged by fire and build a cement block structure.

**Iowa, Fontanelle**—Odd Fellows have purchased lots and expect to erect brick building, 2-story and basement.

**Iowa, Lansing**—Citizens discussing plans for a new opera house; address the mayor.

**Iowa, Moulton**—Motion picture theater, a brick building, burned; loss, \$3,500; insured for \$3,000; Mr. Kitler, manager.

**Iowa, Tipton**—Reported an architect has been secured from Cedar Rapids to prepare preliminary plans for the Hardacre convention hall, probably 2-story and fireproof; address city clerk.

**Iowa, Rutland**—Reported that Monarch Studio Co., 593 Wabasha st., St. Paul, wants sub-bids on ventilating, steel booths, cement and ornamental glass, plastering, painting, etc., for the picture theater built by the Danish Builders' Association.

**Iowa, Titonka**—Plan on foot for building of an opera house; address the mayor.

**Kans., Colony**—Definite action will probably be taken soon on a convention hall for Ozark township to cost about \$7,000; V. C. Archer, Colony, interested.

**Mo., Macon**—It is expected that contract will be awarded in the spring for a 2-story convention hall and garage to be built by the city, 75x92, cost about \$17,000; Ludwig Abt, architect, Moberly, Mo.; structural steel, galvanized iron, skylights, Carey roofing, yellow pine finish, concrete and yellow pine floors, electric wiring, plumbing, lighting, heating etc.

**Minn., Anoka**—The Anoka County Agricultural society are discussing the construction of permanent buildings for the county fair grounds; address secretary of the society.

**Mo., Richmond**—Plans under way by Jno. F. Sharp, Baltimore, Ohio, for remodeling of brick church into modern theater, costing approximately \$5,000.

**Mont., Billings**—Building at 16-18 N. Broadway has been purchased by V. D. Caldwell and E. C. O'Keefe and will be remodeled into a moving picture theater; sloping floor of concrete, steel ceiling, handsome decorations, seating capacity of 750; cost about \$15,000.

**Mont., Butte**—Plans have not yet been decided upon definitely for the club house for the Butte Country club, but in general they will embody the reconstruction of the building burned in the latter part of November; address the secretary.

**Mont., Forsyth**—Plans for the proposed theater to be built by the Forsyth Opera House Co. are being prepared by L. C. Wahl, one of the directors; cost will be about \$20,000.

**Mont., Helena**—W. M. Biggs, city councilman, is favoring a proposition of employing an architect to prepare plans for remodeling of the auditorium into a municipal theater; the cost would be about \$15,000; address city clerk.

**Neb., Central City**—Opera house block burned; Dr. H. E. Glatfelter, owner; loss, \$18,000, insured for \$5,000; will rebuild at once.

**Neb., Greeley**—A convent of the Dominican order of the Catholic church will be built here; Bishop Scannell for particulars.

**Neb., Omaha**—Reported bids are wanted on electrical work, painting, forced air ventilation, marble and cement work, ornamental glass, etc., by Monarch Theater Co., St. Paul, Minn., for theater building for Grand Theater Co.

**Neb., Palisade**—The Workman lodge at Trenton has decided to build a 2-story, frame building with steel siding, 29x70.

**Neb., Trenton**—Preliminary sketches are to be called for at once for a lodge building for the Workmen order; 2-story and basement; address the secretary.

**S. D., Sioux Falls**—It is expected contract will be awarded in the early spring for the Elks' temple, for which plans are being completed; 3-story and basement; brick, stone, terra cotta, marble, tile, hardwood floors, hardwood finish, steam heat, electric wiring, plumbing, fixtures, vacuum cleaner, ventilating, etc.; address secretary of the order.

**Texas, Austin**—Plans under way for remodeling the opera house owned by the Hancock Opera Co., cost to be approximately \$25,000; fireproof.

**Wash., Tacoma**—Permit has been issued for alterations to the Princess theater at a cost of \$3,000; A. Huth, president Pacific Brewing & Malting Co.

**Wash., Walla Walla**—Reported that A. W. Eiler, manager Bijou theater, is planning a \$60,000 theater; and that Clarence Crews, manager of the Dime theater, has plans for a \$50,000 structure; Geo. H. Purvis of Seattle, drew plans for the Crews building.

**Wis., Argyle**—Plans in progress and bids will be taken soon on building with dance hall on 2d floor; 64x90, 2-story, \$15,000; Phillipson Bros., owners.

**Wis., Baraboo**—Al. Ringling has plans for the proposed new Ringling theater building to be erected at Baraboo during the coming year; 88x132, seating, 1,000; flanked by store and including several office suites.

**Wis., Kendall**—A. H. York is considering the building of an opera house here.

**Wis., Kenosha**—Plans in progress for club house for Order lodge No. 1055, F. O. E., care Geo. L. Flasch; 50x100, 3-story and basement, \$30,000; Jos. Lindl, architect, 312 Main st.

**Wis., Kenosha**—The Kenosha Aerie of Eagles has accepted plans and specifications for a new club house to be erected at once at a cost of between \$35,000 and \$40,000; to be located on shore of the lake; address secretary of the order; 50x100, 2- or 3-story, vitrified brick, Bedford stone trimmings.

**Wis., Milwaukee**—A \$20,000 picture theater will be built at 40th st. and North av.; 55x120 seats for 900, brick and terra cotta; A. F. Swager, architect, city.

**Wis., Superior**—Labor unions of the city taking final action on building a labor temple; E. T. Harris, chairman of the building committee.

**Wis., West Bend**—Contract to Aug. Rosenthal for rebuilding of dance hall, saloon and flat building; 2-story and basement, \$6,000.

## HOTELS AND HOSPITALS

*Notes arranged alphabetically by States.*

**Ark., Little Rock**—City is contemplating building a hospital to cost \$150,000; Mayor Taylor advocates bond issue and early construction; address city clerk.

**Ark., Walnut Ridge**—Mrs. Lizzie Burel will rebuild Hotel Rhea, recently burned; 3-story and basement, 100-foot frontage; brick, steel, reinforced concrete, stone, hardware, steam heating, modern plumbing, electric wiring, telephone ventilators tar and gravel roofing, building stone foundation.

**B. C., Vancouver**—Plans being prepared by A. A. Cox, Carter Cotton building, for an addition to the Vancouver general hospital at 12th and Willow sts., to cost about \$85,000.

**Ill., Moline**—Olaf Z. Gervin, architect, Rock Island, Ill., writes that he expects to let contracts in the near future for the new Lutheran hospital to be built in Moline; work to begin in March; plans for accommodation of 120 patients, but will be built at first to take care of 60; boiler house in separate building; modern, with complete sanitary equipment, fireproof, monolith or linoleum floors, rounded corners, flushed casings, and flushed panel doors.

**Iowa, Brooklyn**—Reimer & Herdin, architects, Marshalltown, have prepared plans for F. Dewey for his proposed hotel; 74x120, solid brick, 3-story, 74 rooms, estimated cost, \$50,000.

**Iowa, Carroll**—It is expected that contract will be awarded in the spring for the proposed hotel for J. B. Hahn; private plans; 52x54, 3-story and basement, \$10,000; brick, cut stone, steam heat, electric wiring, plumbing, etc.

**Iowa, Mason City**—Reported that bids are to be called for at once for construction of a club building for the Country Club, Jas. E. Decker, president; Green & Wicks, architects, Buffalo, N. Y.; 2-story and basement, 100x50, porch 16x51, tile and plaster construction, marble, cement, heating, steam heating, plumbing, shower bath, ventilators, lockers, refrigerators, laundry equipment, etc.

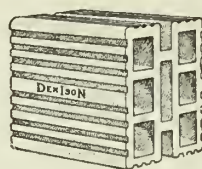
**Minn., Minneapolis**—T. E. Hughes, president of Union City



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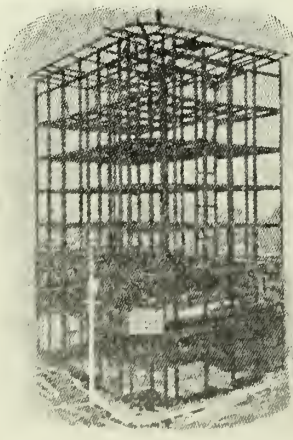
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**Minn., Minneapolis.**—Plans in progress and bids taken soon on hotel and store building for the Union City Mission; C. E. Bell, architect, Security Bank building; 88x157, 12-story and basement, \$200,000; details given in recent issue under Minneapolis heating.

**Minn., Morris.**—Dr. C. E. Caine and O. N. Dohlen have been appointed members of the committee that will have charge of the building of the proposed tuberculosis sanitarium for the counties of Stevens, Pope, Grant and Douglas; location will probably be at Glenwood, though it is understood Alexandria will also present a site; meeting of full committee on Jan. 11.

**Mont., Browning.**—J. B. Gibson, architect, Kalispel, is preparing plans and specifications for a new and modern hotel to be built by W. E. Haggert.

**Mont., Farmington.**—Steps being taken for erection of \$8,000 hotel building; address mayor.

**Mont., Gregson.**—Big hotel managed by Hugh Daly burned; loss \$75,000; partially insured.

**Mont., Garneill.**—Garneill hotel destroyed by fire; loss \$10,000; owned by Charles T. Bennett.

**Mont., Kalispell.**—Contracts to E. G. Evensta & Co., Northwestern building, Minneapolis, for various hotels and chalets in the Glacier National Park, being built by the Great Northern railway.

**Neb., Grand Island.**—City and county authorities to have meeting in near future in regard to an emergency hospital; address city clerk.

**Neb., North Platte.**—The Union Pacific hotel is to be improved at a cost of about \$1,300; entire building to be repapered and painted, and lobby replastered.

**N. D., McGregor.**—Dakota hotel destroyed by fire, total loss; reported that it will be rebuilt in the spring.

**Ore., Portland.**—Will of late E. Henry Wemmer, Portland, allows property valued approximately at \$200,000 to establish maternity hospital. At end of three years hospital to be given to Christian Science churches, Portland.

**S. D., Edgemont.**—Wm. Bartlett and J. E. Calder have secured a franchise for exclusive use of the sulphur wells and will build a sanitarium and hotel.

**Texas, San Antonio.**—Plans are in progress, bids to be received about Jan. 20, for a hospital for the city of Antonio and Bexar county: 220x48, 3-story, \$250,000; Reuter & Harrington and Atlee B. Ayres, architects.

**Wash., Olympia.**—Bids for construction are expected to be asked in February for a hotel to be erected by the Olympia Hotel Co. at 6th av. and Franklin st.; plans by V. W. Voorhees, Etel building, Seattle; 7-story, reinforced concrete, brick and terra cotta, \$100,000.

**Wis., Rhinelander.**—Plans being prepared for a 2-story and basement hotel to be constructed here by Geo. B. Herman of Antigo, Wis.; estimated cost \$75,000; brick and tile walls; tile and concrete floors; tile partitions; brick and stone exterior finish; concrete foundations; contracts will be let about March 1.

**Wash., Spokane.**—Low bid submitted for construction of county tuberculosis sanatorium at Edgecliff submitted by J. E. Cunningham, \$45,187; low bid for heating submitted by Blair-Meagher Co., \$10,075, and low bid for plumbing by Standard Plumbing & Heating Co., \$6,846; other bidders were as follows: J. M. Yeaman, Spokane, \$54,000; Guthrie-McDougal Co., Spokane, \$46,935; Jno. T. Huetter, Spokane, \$64,000; Hartness & Norris Spokane, \$51,848; Carl W. Anderson, Spokane, \$50,990; N. Norman, Spokane, \$57,937; F. E. Paterson, Spokane, \$53,150; Alloway & George, Spokane, \$57,000; Geo. Groschoft, Spokane, \$51,680; J. B. Sweat & Co., Spokane, \$52,432; Chas. Jasper, Spokane, \$60,500. On heating and plumbing other bids were as follows: M. Isbister, heating, \$13,728, plumbing \$9,298; Inland Heating & Plumbing Co., heating \$12,475; Arnold-Evans Co., \$12,855, \$7,500; Smyth Plumbing Co. \$12,381, \$9,893; Standard Plumbing & Heating Co. heating, \$11,887; Blair-Meagher Co., plumbing, \$9,175; Geo. McCaffrey plumbing, \$8,287.

**Wis., Elk Mound.**—Restaurant owned by R. C. Cox burned; loss \$1,500.

**Wis., Kenosha.**—Sketches for proposed tuberculosis sanitarium will be received by R. H. Jones, county clerk; cost \$20,000.

**Wis., Milwaukee.**—Board of managers of St. John's home for old ladies, 640 Cass st., is about to select architects to prepare plans for the proposed new home at Prospect av. and Bradford st. to cost \$60,000; Mrs. M. L. Rinsdale, secretary.

**Wis., Osceola.**—Osceola hotel, owned by John Laventure,

burned; total loss, insurance, \$4,200; said he will rebuild at once.

**Wis., Prairie du Chien.**—Addition of 15 rooms will be added in the spring to the old sanitarium, of which B. C. Rosencrans is manager.

**Wis., Superior.**—Final negotiations probably within few days for proposed hotel here to cost \$250,000; plans reported made and approved by parties who will finance the project; purchase of site being made by G. G. Newton & Co.

#### BIDS WANTED.

**Kans., Leavenworth.**—Bids received by F. H. Duehay, superintendent of prisons, department of justice, Washington, D. C., until 2 p. m., Jan. 22, for metal lath and plastering material for the U. S. Penitentiary now building; also, bids received by the same, until 2 p. m., Jan. 23, for 4,000 barrels of cement for use in work at the penitentiary.

**Kan., Topeka.**—Bids received by W. E. Brooks, chairman, state board of managers, Topeka, until 2 p. m., Jan. 16, for furnishing electric lights for four different institutions under supervision of state board of control; check for 5 per cent.

**Kans., Victoria.**—Fred Toeffer, owner, and C. A. Smith, architect, Salina, Kans., will take figures on construction of hotel building; 36x60, 2-story and basement; plans nearly completed; brick and stone, cement, hardwood and tile floors, steel ceiling in office and dining room, electric lights, plumbing, plate glass front, tar and gravel roof.

**Neb., York.**—Bids will be taken about Feb. 1, (no date set for close), by W. F. Gernandt, architect, and also Fred Strobel, chairman of committee, for the hospital for the Evangelical Lutheran Hospital Association; 94x50½, 2-story and basement, \$25,000; brick and stone, semi-fireproof; steel frame and beams, ornamental iron and iron joist hangers, reinforced concrete fireproofing, gypsum blocks, cut lime stone, common and pressed brick, dark color, steam heat, city water, sheet metal cornice, copper skylights, sheet metal sash and frames, roof of slate, tile or asbestos shingles, patent plaster, plaster board, metal lath, corner bead, plate prism, wired and ribbed glass, maple and terrazo floors, birch finish, one automatic elevator and one dumb waiter. Preliminary plans just approved; working plans ready about Feb. 1; Fred Strobel, chairman of building committee, State Bank building, Omaha, Neb.

#### CONTRACTS AWARDED.

**Iowa, Montrose.**—Contract to G. W. Reimbold, Nauvoo, Ill., for hotel for the Montrose Hotel Co.; 60x67, 2-story and basement, \$10,000; brick, concrete, lumber, hardwood floors and finish, heating, plumbing, electric wiring, ventilating, composition roof etc.

**Wis., Plymouth.**—Contract to the Northern Furniture Co. for furniture for a 600-room hotel in San Francisco; a rush order.



## SCHOOLS



**Colo., Holly.**—Special election will be held Jan. 16, to vote on \$30,000 bonds for new school, further information from G. W. Sceltzer, secretary school district No. 6, county of Powers.

**Colo., McClave.**—Bonds for \$4,000 have been voted for new school; address clerk of school district.

**Iowa, Burlington.**—School near West Burlington recently burned will be rebuilt soon; plans completed; address Wm. Flachman, R. F. D. No. 2, West Burlington.

**Iowa, Des Moines.**—Newly formed consolidated independent school district, propose to sell \$20,000 bonds for new building.

**Iowa, Dubuque.**—City is agitating question of a new school building.

**Iowa, Iowa City.**—A new dental building to cost \$100,000 will be erected at once, at the state university; and a \$150,000 isolation hospital and botany building will be erected later; also a geology building; W. T. Proudfoot, architects, instructed to draw up plans for dental building.

**Iowa, Lansing.**—A \$25,000 modern school building will be erected here.

**Iowa, Merrill.**—Voters of Pierson have voted to build a new school.

**Iowa, Thompson.**—Plans are being prepared by Jas. S. Cox, architect, Estherville, Iowa, for a 2-story, 72x64, school building, brick, cost \$28,000; ready for bids in February; steel trusses, beams, cast columns; iron joist hangers and vault lights, tile, reinforced concrete, fireproofing, cut stone, lime, common, pressed and hollow brick, steam blower heat, city water, electric lights, composition roof, common plaster, metal lath, corner bead, plate, prism, wired and sidewalk lights, glass, maple and composition floors, oak finish, rolling partitions; board of education will take bids.



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**Iowa, Thompson**—At special election \$28,000 bonds were voted for new school.

**Mich., Calumet**—Contract awarded to an Antigo, Wis. firm for erection of school at Michagamie.

**Minn., Alexandria**—Clerk A. A. Urness, new high school building; capacity 400 pupils; fireproof construction; steam heat and fan ventilation; departments; agriculture, manual training, home economics, teacher training, commercial.

**Minn., Duluth**—Plans and specifications for addition to Lincoln school for junior high school will be submitted to board of education by architects, within two weeks.

**Minn., Jackson County**—District No. 93; hot air furnace heating system for 1-story, 1-room frame building with basement, as submitted by Roberts-Hamilton Co., Minneapolis; clerk, L. H. Garber, R. R. 6, Jackson, Minn.; approved by the state commissioner.

**Minn., Kenyon**—Clerk C. J. E. Holmen; new high school and grade building; capacity 450 pupils; brick, steam heat and fan ventilation; departments: agriculture, manual training, home economics; estimated cost \$50,000; bonds to be voted.

**Minn., Lamberton**—Clerk A. H. Enerson, new high school building; capacity 300 pupils; brick; steam heat and fan ventilation; departments: agriculture, manual training, home economics, teacher training, commercial; estimated cost \$40,000.

**Minn., Le Sueur County**—District No. 61; clerk, Christ Greve, New Prague; rural school building, 34.10x52.8; brick and tile construction; furnace heat and gravity ventilation; standard school plan No. 3, slightly enlarged; approved by commissioner of school buildings.

**Minn., Minneapolis**—Stanley Hall burned with loss of \$30,000 to \$50,000.

**Minn., Ortonville**—Plans prepared by Alban & Lockhart, architects, Endicott building, St. Paul, for a high and grade school, brick, fireproof; cost \$50,000; Robert Hunter, clerk, Ortonville.

**Minn., Wells**—Plans in progress by architect E. L. Masqueray, Endicott building, St. Paul, for a parochial school, for St. Casimir's church; Rev. J. Mickolai, pastor, Wells, 2-story and basement; cost \$30,000.

**Mont., Redstone**—A 2-story and basement, 52x40 school will be erected, cost \$15,000; general contract awarded to E. E. Phelps, Redstone, Mont., J. W. Ross & Sons, architects, Grand Forks, N. D.; C. B. Bull, clerk.

**Mont., Windham**—Plans are being made here for reconstruction of a school building recently burned; address city clerk, or county superintendent at Lewistown.

**Neb., Hartington**—A new school will be erected between Valley and Fordyce in the spring; Joseph Thoenie circulated petition.

**Neb., Hastings**—Board of education will enlarge the East Ward school.

**Neb., Hubbard**—A school may be erected in Wegel Creek district next year, for the German school.

**S. D., Sioux Falls**—Bids received until 4 p. m., Feb. 12, for a school building, plans by Patton, Holmes & Finn, architects, and on file at office of board of education, Sioux Falls, S. D. and at office of architects, 8 S. Dearborn st., Chicago, Ill., Builders' Exchange, Minneapolis, F. W. Dodge Co., Minneapolis; certified check \$1,000; officially advertised in the Improvement Bulletin this week.

**S. D., Yankton**—Town is planning to erect a new school soon.

**S. D., Yankton**—Architects Miller, Fullenwider & Dowling, 6 N. Michigan av., Chicago, are taking bids for a dormitory for the Yankton college, 3-story and basement, 50x120; cost \$55,000.

**Wis., Independence**—Board of education has engaged C. M. Rounds, architect of St. Paul, Minn., to prepare plans for a \$35,000; public school building.

**Wis., Madison**—The Wisconsin Construction Co., Chippewa Falls, awarded the general contract at \$180,775 on new physics building, for university of Wisconsin, is taking sub-bids for material and several departments of work, Madison office 112 Orchard st.

**Wis., Oconto**—Fire damaged the gymnasium building here about \$10,000, insured.

**Wis., Patch Grove**—At a special election it was voted to issue \$15,000 bonds for new high school; architect not yet selected.

**Wis., Racine**—New plans are in progress for a 3-story and basement school, cost \$80,000; Guilbert & Funston, architects, Robinson block, Racine; J. J. Moritz, secretary, board of education, City Hall.

**Wis., Stevens Point**—A new \$100,000 dormitory will be erected for Stevens Point Normal, 150-foot frontage on Main st., 264-foot on Fremont st., 150-foot on E. Normal av., work to

commence in early spring; \$50,000 will be available March 1, and a like amount in July; Geo. B. Nelson, regent of normal.

**Wis., Wausau**—A special committee has been appointed by the board of education, Wausau, to investigate the cost of equipping the manual training department of the Wausau high school, with additional and new equipments of various kinds.

**Wyo., Rawlins**—At special election \$12,000 bonds were voted for new school building; address clerk of school board.

**Wyo., Thermopolis**—The school board will build two large modern school houses in this district.

#### BIDS WANTED.

**Iowa, Albert City**—All bids were rejected on school in Lincoln-Lee school district, new bids will be readvertised for soon and contract let, Robert Bailey, architect, Storm Lake, Iowa.

**Iowa, Lawton**—Bids will be called for in February for a school, 72x64, fireproof; cost \$28,000; James S. Cox, architect, Estherville, Iowa.

**Minn., Osakis**—Bids received until Jan. 7, for erection of a new school building, 119x109, in joint school district No. 1 and 2, Douglas and Todd counties, 2-story and basement, Kirby T. Snyder, architect, Plymouth building, Minneapolis; plans at office of W. A. Yates, president of board of education or with architect.

**Mont., Savage**—Bids will be received until Jan. 30, 1 p. m., for purchase of \$600, school bonds, 6 per cent, district No. 66, Richland county; Mrs. Geo. Miller, clerk.

**Mont., Shonkin**—Bids received until Jan. 12, for purchase of \$850 bonds for school in district No. 121; Helen O. Keyes, clerk.

**Mont., Shonkin**—Bids received until Jan. 12 for purchase of \$900 bonds for school building, district No. 43, E. C. Harvey, clerk.

**Neb., Duncan**—The St. Stanislaus parish will erect a \$25,000 parochial school; plans for building prepared by architect Chas. Wurdeman of Columbus; contract to be let about middle of February.

**Wis., Kenosha**—Bids will be taken about Feb. 1, by Jos. Lindl, architect, Kenosha, Wis., for entire construction, new \$25,000 edifice for St. Peter's Roman Catholic congregation at St. Peter, Fond du Lac county.

**Wis., Kenosha**—Bids will be received until Jan. 12, 8 p. m., for a fresh air school; plans by Carsley & Inman, architects, rooms 17-18 Schooler building, Kenosha, on file with architects; check 5 per cent; Geo. Wallis, chairman school board.

**Wis., Madison**—The board of regents of normal schools, Wm. Kittle, secretary, Madison, Wis., will take bids until Jan. 15, for completion of 2-story and basement gymnasium building, at state normal school, Whitewater, Wis.; Van Ryn & De Gelleke, architects, Milwaukee.

**Wis., Milwaukee**—Bids will be closed about Jan. 9, by E. Brielmaier & Sons, architects, 111 Mason st., Milwaukee, for a 4-story concrete, brick and hollow tile fireproof dormitory for Campion college, Prairie du Chien, 77x170, electric elevators, 5 h. p. electric vacuum cleaning system.

**Wis., Randolph**—Bids will be received about Jan. 15, for a 3-story and basement, school 60x90, cost \$25,000; plans by architects, Rauber & Mehner, Collins building, Fond du Lac, and Manitowoc, Wis., D. J. Hughes, board of education, Randolph.

**Wis., Randolph**—Bids will be received until Jan. 16, by Mrs. J. W. Hutchinson, clerk, board of education, for general contract, heating, ventilating and plumbing, electrical work on the new \$25,000 Randolph high school; plans by Rauber & Mehner, architects, Fond du Lac; 2-story, brick and concrete, 58x90.

#### CONTRACTS AWARDED.

**Iowa, Conway**—Contract awarded to Mr. Bridges for installation of a new Victor furnace in school building at Conway.

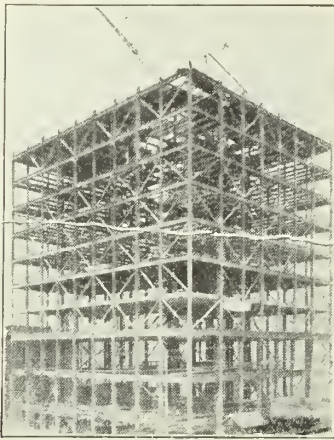
**Neb., Bellevue**—A new gymnasium will be erected at Bellevue college; cost about \$20,000; contract already let and work will start soon as possible.

**Wis., Beloit**—Contract awarded to the Art Metal Co., Jamestown, N. Y., for furnishing and installing new book-stacks, and filing cases in the library of Beloit college; cost about \$10,000; Rev. E. D. Eaton, president.

**Wis., Menomonie**—General contract awarded to Madsen Bros., Plymouth building, Minneapolis, for domestic science building at Stout institute; heating contract awarded to Henry Sohns of Milwaukee, and heat regulating let to National Regulation Co. of Chicago; ground has been broken.

**Wis., Mercer**—Contract awarded to DuBois Haevers Co. of Mercer, for furnishing locks and finishing hardware for new \$35,000 high school.





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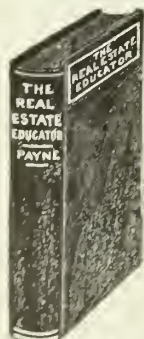
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**Wis., New London**—Contract for painting and finishing the 14-room school building of the Most Precious Blood congregation awarded to Ed. Ellis.

## ⊞ MILLS AND FACTORIES ⊞

**Ark., DeQueen**—County agent Wofford is organizing a company to erect a packing plant, cost about \$10,000; bids will probably be called for soon.

**Colo., Platteville**—A movement has been started for erection of a modern canning factory here; Mayor S. H. Birkle interested.

**Ill., Bloomington**—Paper mill will be erected here soon, Geo. A. Stewart of the bureau of plant industry, interested.

**Ill., Chester**—Fire destroyed the plant of the Cole Milling Co., loss \$150,000.

**Iowa, Atlantic**—The Atlantic Manufacturing Co. may build a factory here, brick, 1 and 2-story, 25x125; G. E. Kolken, manager; private plans.

**Iowa, Lone Tree**—The Zimmerman Steel Co. plant will be moved to Davenport, Iowa, will erect new buildings to cost about \$75,000.

**Kans., Leslie**—The Smith Fence Post Co. will erect a factory to manufacture steel fence posts; capital \$20,000; W. A. Brittin, Wm. Ashley and others interested.

**Kans., Seneca**—Plans are under way for a factory building and plant, work will probably start early in 1915; Chas. Wetmore and others interested, Seneca.

**Minn., Duluth**—The Duluth Crushed Stone Co. is erecting a new plant here; cost about \$30,000.

**Minn., Mankato**—Contract awarded to Coomer & Small of Sioux City, Iowa, for erection of the Cedar Rapids Oil Co.'s plant.

**Minn., Morris**—A fanning mill may be erected here soon by Mr. Vaughn of Albert Lea, Minn.

**Mont., Moore**—Funds are being raised for erection of a flour mill here; W. T. Sharp and others interested.

**Neb., Falls City**—Plans are being discussed for a cold storage plant here.

**Neb., Fremont**—The Farmers' Union will build a central Creamery, cost \$50,000; C. H. Gustafson, president.

**Okla., Tulsa**—The Tulsa Furniture & Fixture Co. will erect a factory building; plans completed, cost about \$4,000; work started, brick and cement.

**S. D., Sioux Falls**—The Bridgeman-Russell Co. of Duluth, Minn., dealers in butter, eggs and milk, will erect a building here in near future.

**S. D., Spearfish**—Plans are being prepared for a canning factory to be erected here in the spring.

**Wis., Ashland**—The Ashland Engineering Co. is making preliminary plans for an auxiliary steam plant, in the west, and plan to erect a new gas plant and holder; work to be done within next six months.

**Wis., Cudahy**—The Federal Rubber Manufacturing Co. will erect an addition, 124x44, 3-story, brick and mill construction to its plant.

**Wis., Manitowoc**—Bids were received until Dec. 30, for excavation and for all foundation work for \$35,000 factory and machine shop building, for the Atlas Engineering Co., concrete mixers, Milwaukee, Wis., which will move to Manitowoc; bids on superstructure to be taken later; Earl F. Miller, architect, Dempsey building.

**Wis., Manitowoc**—The Atlas Engineering Co. will start campaign to raise remainder of funds necessary to erect a factory; Citizens' Association proposed to buy site and erect a 1-story brick factory, 40x250; cost about \$11,000.

**Wis., Marshfield**—The Felker Manufacturing Co., steel culverts, tanks, heaters, well tubing, etc., is planning erection of a 75x80 addition to its plant, and establish a department for manufacturing of stanchions, litter carriers, feed trucks, etc.

**Wis., Marshfield**—Contract awarded to Kraiss Bros. for erection of the new storage plant of the Standard Oil Co., concrete and brick.

**Wis., Merrill**—A pickle factory will be established here by S. M. Dingle Co., of Evanston, Ill.

**Wis., Milwaukee**—The Lakeside Bridge & Steel Co., N. Milwaukee, is about to establish a department for production of sectional and portable steel towers for concrete construction, towers will be in 12-ft. sections, up to 96-ft. with steel shutes for gravity feed mixture to any part of the job.

**Wis., Milwaukee**—The Koban Manufacturing Co., 241 S. Water st., marine engines and detachable rowboat motors, has increased its capital stock from \$25,000 to \$75,000; Otto J. Koch, 59 University building, president.

**Wis., Port Wing**—Fire destroyed the 2-story frame sawmill of T. N. Okerstrom; loss about \$30,000, partly insured.

**Wis., Rozelville**—Fred Flagel will erect a mill soon.

**Wis., Superior**—Local capitalists are investigating the proposition of forming a stock company to establish wire and nail mill here.

**Wis., Two Rivers**—City is again agitating question of a municipal gas plant.

**Wis., Wausau**—Plans for the proposed \$50,000 co-operative packing, refrigerating and elevator plant of the Farmers Co-operative Packing Co., are being completed by architects of the department of agriculture, U. S., Washington; bids will be taken about March 1, 1915.

**Wyo., Wheatland**—A new alfalfa mill will be erected here soon.

## ⊞ ELECTRICAL ⊞

*Notes arranged alphabetically by States.*

**Iowa, Collins**—Reported that Maxwell Electric Light & Power Co. has applied for a franchise to the city council, to supply electricity for lamps and motors for town.

**Kans., Downs**—A series of street lighting is being installed by the Downs Electric Light & Power Co. consisting of 57 lamps; A. G. Blankensky, manager.

**Kans., Winfield**—Plans and specifications will be completed within 30 days and bids will be called for on an electric light addition of 500 k. w. electric generating unit with auxiliaries; W. J. Welfelt, superintendent, electric light and water committee.

**Minn., Duluth**—A special election will be held Jan. 19, at which time three proposals will be submitted to voters as follows: referendum on ordinance appropriating \$85,800 for construction of first unit of municipal plant; initiative ordinance directing city to enter into two-year contract with the Duluth-Edison Co. for 6c rate, and alternative ordinance providing for 4c rate.

**Minn., Elmore**—An electric light system may be installed here; H. Merrifield interested.

**Minn., Fairmont**—Plans by Geo. Pass & Son, architects, Manly, for the new telephone exchange building, have been accepted.

**Minn., Henning**—Village has granted a franchise to Val Herman of St. Cloud for an electric lighting system.

**Minn., Lamberton**—The local electric plant has been purchased by R. F. Wherland of Redwood Falls, and H. L. Wherland of Faribault, new owners will make extensive improvements in plant.

**Minn., Millville**—An electric light system may be installed here.

**Minn., Sherburne**—Proposition discussed for a white way system.

**Minn., Windom**—An election authorized the issuing of \$25,000 bonds for new electric light system.

**Mont., Culbertson**—An electric light plant will be installed in Donaldson Bros. garage to supply electricity for city.

**Mont., Glasgow**—Plans are being considered for installation of an electric light system during coming year.

**Neb., Nebraska City**—The board of education has adopted resolution requiring all school buildings to be lighted by electricity.

**N. D., Antler**—Installation of an electric light plant is under consideration.

**Ore., Baker**—An election will be held soon to vote on the issuing of \$180,000 bonds for a municipal electric light plant.

**Wis., Beloit**—Ornamental cluster light system may soon be placed in down town district.

**Wis., Eau Claire**—All bids were rejected on the ornamental lighting system.

**Wis., Lake Geneva**—Bids were received Jan. 5, for one 150 h. p. steam engine and steam pipe with pipe covering, by John S. Allen, manager of Equitable Light Co.

**Wis., Madison**—The Wisconsin Railway Commission has authorized Lancaster Electric Light & Power Co., Lancaster, Wis., to issue \$34,371 in new stock to purchase power and transmission lines between Plattsville and Lancaster; New Richmond Power Co., New Richmond, Wis., to issue \$10,000

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**Wis., Prescott**—An ordinance passed that the Wisconsin-Minnesota Light & Power Co., erect lines, poles, etc., for electric lighting system; J. W. Howes, mayor, R. H. Price, city clerk.

**Wis., Superior**—The Wisconsin Telephone Co. will spend about \$330,000 for improvements during 1915; will build new exchange building.

#### BIDS WANTED.

**Wis., Milwaukee**—Bids received until Jan. 22, for installation of an electric freight elevator in the U. S. appraisers' stores at Milwaukee; bids taken by supervising architect, treasurer's office, Washington.

#### CONTRACTS AWARDED.

**Minn., Elk River**—Contract awarded to F. D. Waterman for franchise to furnish electricity for lamps and motors in city and also contract for street lighting, 50 lamps to be installed at once.

## BUSINESS BUILDINGS

*Notes arranged alphabetically by States.*

**Iowa, Casey**—The Abram Rutt National Bank will erect a 1-story and basement bank building, 31x60, cost \$25,000; bids on material being taken by architect; brick and terra cotta, brick, fireproof, 5-ply tar and gravel roof, stone cornice, structural, ornamental and architectural iron, marble; Lyle Construction Co., architects and builders; S. L. Rutt, president bank.

**Iowa, Chariton**—Fire destroyed the mercantile house of Spurgeon Mercantile Co., loss about \$4,000; building owned by J. A. Brown.

**Ia., Creston**—Fire damaged the Creston business block, owned by O. Roundtree.

**Iowa, Iowa City**—Fire damaged the Paul Helen building about \$20,000.

**Iowa, Keokuk**—Fred Glozer will erect a 2-story and basement store and flat building, 47x50, work to start in spring; brick and stone, composition roof; H. E. Ratcliffe, architect, Dorsey building.

**Iowa, Ladora**—Fire destroyed the following business places: R. N. Seydel, grocer, loss \$25,000, insured \$2,000; Snively Bros., \$10,000 insured at \$4,000; Dr. S. J. K. Seydel, \$100; Farmers' Supply Co., coal and sheds, \$600; J. P. Tyler, plate glass, \$250, loss insured at \$100; R. R. Shaul, \$200; J. E. Sims, \$2,500; Carson Clothing Co., loss \$6,200, insured at \$3,000; postoffice slightly damaged.

**Iowa, Schleswig**—Fire destroyed three of the largest business rooms, in the town; loss about \$35,000.

**Iowa, Washington**—Fred Neiswanger will erect a brick building.

**Iowa, Waverly**—Dr. Karsten may erect an office building next year.

**Minn., Ada**—Dave Newberg will erect a new modern business block in the spring.

**Minn., Duluth**—Frank O. Wallin will erect a 2-story and basement store building, 30x40, general contract awarded to Faucett & Bergstrom, Mesaba building; work started on brick work, brick and stone, hot water heat and plumbing, let to American Heating Co., 228 Michigan av., Bray & Nystrom, architects, Fidelity building, Duluth.

**Minn., Fairmont**—Fire destroyed the Syndicate block; loss about \$75,000. A. L. Ward and Dr. H. P. Johnson, insured at \$35,000; brick veneer, 52x80; will be replaced by a modern fireproof building.

**Minn., Hastings**—Arrangements have been made for revision and adoption of franchise of the Wisconsin-Minnesota Light & Power Co. to erect poles and towers, in city limits.

**Minn., Keewatin**—Fire destroyed the warehouse of Donahue & Connors; almost a total loss.

**Minn., Little Falls**—Swanson Bros. will erect a modern store building at Freedomham.

**Minn., Winthrop**—Plans are being considered for an electric railway through here north to Winsted, and south through Sleepy Eye to Jackson, by the Electric Short Line Co., DeKoven Hunter, Minneapolis, manager.

**Mo., Springfield**—Bids will be taken Jan. 8, for a 1-story and basement, office building; owner's name withheld, Opel & Torbitt, architects; cost about \$8,000.

**Mont., Belmont**—Work will commence soon on the hardware store; Contractor Hardin in charge.

**Mont., Ronan**—Fire destroyed several business buildings; loss about \$5,000.

**Neb., Benkelman**—Jack Pember plans to erect a drug store building.

**Neb., Fremont**—A modern 2-story business block will be erected on site of old City hotel, according to announcement of L. M. Keene; 53x115; plans are being drawn, brick.

**Neb., North Platte**—Extensive improvements are contemplated by McDonald Clothing Co.

**Neb., Omaha**—Plans in progress for a warehouse for Emerson-Brantingham Implement Co., 1219 Leavenworth st.; cost \$30,000; private plans.

**Neb., Omaha**—Plans have been completed for a store building 1-story, brick, tar and gravel roof, Samuel Orloff, owner and builder; cost \$6,000; private plans; C. C. Calkins, agent, City National Bank building.

**Neb., Omaha**—Pheian & Shirley have awarded contract to John McDonald, architect, for plans for a 2-story brick business building.

**Neb., Palmyra**—Thomas Nash will probably rebuild his building recently damaged by fire.

**Nevada, Fairbury**—Three new brick buildings will be erected on site of building formerly occupied by C. F. Nagel.

**N. D., Hamberg**—A charter has been issued for new proposed bank building of Hamberg; brick, modern; capital \$10,000; Mr. Brauer and G. L. Hope of Fessenden, promoters of institution.

**N. D., Noonan**—Another brick business building will soon be erected here.

**Ore., Baker**—Plans will be prepared by L. R. Stockman for a municipal lighting plant; \$180,000 bonds will soon be voted, J. R. Stannard, consulting engineer.

**Ore., Gold Hill**—Bids will be received until Jan. 11, for installing light system and supplying power for a period of 10 years; address city clerk.

**Ore., Gresham**—Fire destroyed the following: Bartlet Mercantile Co. stock, loss \$15,000; warehouse, loss \$5,000; insured at \$2,500; Ed. Osborne, owner of building; Tietz meat market, \$1,000, insured \$800; owners will rebuild.

**S. D., Sioux Falls**—The Bridgeman-Russell Co. of Duluth, Minn., will erect a modern business block; plans are being prepared, work to start soon.

**S. D., Sisseton**—Fire destroyed Erickson's barber shop and Thomas' harness shop.

**S. D., Trent**—Special election will be held first Tuesday in January to vote on electric light plant for town.

**Tex., Conroe**—The plant of the Conroe Gin, Ice, Light and Power Co., recently burned, will be rebuilt at once.

**Tex., Dallas**—The Dallas Automatic Telephone Co. will spend \$200,000 in improved equipment, labor and construction within 90 days, after the first of year. Address Clarence E. Linz, vice president.

**Tex., Gaylord**—About \$7,000 will be spent in lighting system; address town clerk.

**Wash., Seattle**—The city Utilities committee of Seattle city council has by unanimous vote recommended the light extension bill for passage over the mayor's veto; bill proposes to appropriate \$10,000 to extend the municipal light and power system to Tukwila, Foster and contiguous territories.

**Wash., Walla Walla**—C. J. Franklin, engineer, Boise, Ida., is preparing plans for 75 miles of electric railway from here to La Grande, cost about \$2,000,000.

**Wis., Grand Rapids**—City will take possession of the Grand Rapids Electric Co., bonds having been sold to N. W. Halsey & Co., of Chicago.

**Wis., Marshfield**—Contract awarded to Krasin Bros., for a warehouse, stable, garage and office building, for new Marshfield branch of the Standard Oil Co., cost \$20,000.

**Wis., Milton**—Fire destroyed the Crandall meat market, Mazon hardware and other buildings; loss \$15,000.

**Wis., Milwaukee**—H. Rock and E. Schuman will erect an \$18,000 store and lodge building, 53x96, 2-story.

**Wis., Milwaukee**—Fire damaged the store of Wm. Stockland, 1056 Bremen st., about \$1,200.

**Wis., Milwaukee**—The Realty, Finance & Security Co. will erect a drug store and flat building; 2-story, 25x56; cost \$7,000.

**Wis., Rhinelander**—D. H. Hart plans to erect a new store building in the spring.

**Wis., River Falls**—Dr. W. G. Fortune will erect office building here, modern; work to commence in spring.

**Wis., Sheboygan**—Fire destroyed the Slyfield building, loss \$12,000; loss on hardware, \$18,000, insured \$5,000; millinery loss, \$2,000, insured, \$1,000.

**Wis., Strum**—Town was nearly destroyed by fire; loss about \$15,000.

**Wis., Superior**—Plans have been prepared by E. S. Radcliff, architect, room 1, U. S. block, Superior, for a 2-story brick office building; cost \$10,000; work to start in the spring; M. Berger, Cloquet, owner; 80x25.

**Wyo., Carlisle**—A new building will be erected in the spring for the Carlisle store.



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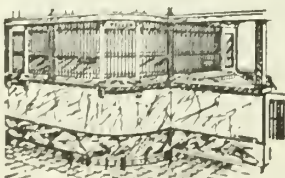
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**Wyo., Lusk**—Bonds in sum of \$8,000 have been voted for electric light system; address town clerk.

#### CONTRACTS AWARDED.

**N. D., Noonan**—Contract awarded to Heath & Bird for erection of a business building for E. M. Truax and Dr. J. Allen Smith; modern.

**Wis., Janesville**—General contract awarded to Hayes Bros., 422 Hayes block, for remodeling of store building for G. G. Sullivan, private plans; will begin work soon; Lewis Levy, lessee.

### CHURCHES

**Iowa, Clarion**—A new church will be erected to replace the St. John's Catholic church, recently burned.

**Iowa, Mt. Ayr**—Plans for the new Baptist church have been on file at the Iowa State Bank; 2-story; cost \$15,000; W. E. Pastor, is pastor.

**Iowa, West Chester**—Methodists of town are planning to build a new church.

**Minn., Cass Lake**—Trustees of the German Baptist church have purchased a building and will remodel same into a church and parsonage.

**Minn., Fergus Falls**—Fire destroyed the Bethel church at St. Olaf.

**Minn., Osseo**—A brick church will be erected for the Lutheran congregation, 28x40, full basement, furnace heat, seat 150; yellow pine and fir, tower; H. A. Miller, architect, St. Paul, Minn.; plans out Feb. 1; spring work.

**Neb., Utica**—Work will start about March 1, on the new Catholic church.

**N. D., Napoleon**—The German Lutheran Congregation will erect a new church, as soon as weather permits; Rev. M. W. Riedel, pastor.

**Wis., Blackcreek**—Fire destroyed the German Evangelical Lutheran church, loss \$7,000; will rebuild at cost of about \$20,000.

#### BIDS WANTED.

**Minn., Young America**—Bids will be received until 12 m., Jan. 23, for a church building, for the Evangelical Lutheran congregation; plans by architect A. F. Gauger, St. Paul, Minn.; check 1 per cent; plans at residence of Theo. Buegel, Young America, Minn., office of F. F. Kloth, Bank of Norwood, Norwood, Minn., and office of architect, St. Paul; officially advertised in the Improvement Bulletin this week.

#### CONTRACTS AWARDED.

**Wis., Milwaukee**—General contract awarded to Wm. Koeppe of Sheboygan Falls, Wis., for solid brick church for the Lutheran congregation; mason work to A. C. Mallman, Albert Schneiderwind, carpenter work, and Mallman & Martin for heating work.

**Wis., Sheboygan Falls**—Contracts for the new \$25,000 press brick church for the St. Paul's Lutheran congregation were awarded as follows by architects Leiser & Holst, Milwaukee: carpenter, Wm. Koeppe; mason, A. C. Mallmann; sheet metal, heating, plumbing, Mallmann-Martin Co., all of Sheboygan.

### ELEVATORS

**Kans., Elk City**—Preliminary plans are under way for a grain elevator for the Grangers Elevator & Supply Co., capital \$5,000; contract to be awarded soon.

**Neb., Monroe**—The grain elevator recently burned will be rebuilt by the T. B. Hord Grain Co., G. B. Bissel, secretary; probably reinforced concrete and brick.

**Okla., Miami**—Miami Amalgamated Milling Co., chartered, capital \$50,000, will build; W. H. Trapp, Miami, A. W. Thurman, Joplin, Mo., interested.

**Neb., Oakland**—The Farmers' Educational & Co-operative Union are planning to erect an elevator.

**Neb., Monroe**—Workmen are clearing site of burned Ford elevator and a new building will be erected soon.

### GARAGES AND BARNs

**Wis., Milwaukee**—Fire damaged the livery stable, 331 Pulaski st.; loss \$3,000.

**Wis., Dodgeville**—Fire destroyed the large barn of Ed. Brunker; loss about \$2,600; partly insured.

### MISCELLANEOUS

**Iowa, Cedar Rapids**—Improvement commission favors a sea wall and 10-foot walk from 1st to 3d av., and recommends advertising for bids.

**Man., Winnipeg**—Sealed tenders addressed to the undersigned will be received up to noon of Monday, Jan. 18, 1915, for the supply of gravel pit excavation, screening, elevating and crushing machinery; also for locomotives and cars for pit and for railway service; specifications and form of tender may be obtained and form of contract may be inspected at the offices of the district; the lowest or any tender not necessarily accepted; S. H. Reynolds, chairman of Commissioners, Winnipeg, Man., 901 Boyd building.

**Minn., Baudette**—Council is making plans to improve the river docks; Cathcart dock on the Rainy River will be improved to aid steamer traffic in the spring.

**Minn., Hibbing**—G. A. Oveson of International Falls has submitted a bid for three units of an incinerator with which to take care of entire village for \$5,250; the McGuire Incinerator Co., submitted a bid for two units to cost \$9,680; committee appointed to investigate merits of the two propositions.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., Jan. 18, for 170 water gate valves; check 10 per cent; also, at same time, for cast iron valve boxes and roadway covers; check 10 per cent; also, at same time, for 130 fire hydrants; check 10 per cent; also, at same time, for structural steel and iron to be used in connection with the construction of the new building for the water department; check for 10 per cent; also, at same time, for from 21 to 23 tons of cast iron special castings, sizes 4 to 20 inches; 10 per cent.

**Mont., Butte**—An ore mill is planned by Louis Schmuck, owner of White Chief mine, Madison county.

**Neb., Pine Bluffs**—Union Pacific has started work on the new coal chutes, to cost \$25,000.

**N. D., Cooperstown**—Bids will be received till 1:30 p. m., Feb. 1, 1915, for erection of the A. H. Berg memorial gymnasium; plans at office of Berg Bros., Cooperstown, and office of Hancock Bros., architects, Fargo, N. D.; certified check \$300; officially advertised in The Improvement Bulletin this week.

### FIRE APPARATUS

**la., Fulton**—Special election will be held to vote on \$10,000 bonds for new station and equipments.

**Minn., Brainerd**—City will purchase a motor fire truck.

**Mont., Butte**—Edward Hyland was re-elected fire chief of volunteer fire department.

**Mont., Philipsburg**—The Philipsburg Fire association has purchased a 40-gal. chemical fire engine.

**Wis., Florence**—Town Clerk Young has ordered 500 feet new fire hose from the New York Belting & Packing Co. of Chicago, known as the Atlas brand.

**Wis., La Crosse**—City will not purchase auto hose and chemical combination cart until next year.

**Wis., Ladysmith**—W. D. Morgan, city engineer, Ladysmith, wants quotations on one chemical wagon, fire extinguisher and an electrically operated general fire alarm or siren.

**Wis., Sheboygan**—Chief Ed. Bedford has retired from chief of the fire department after 13 years' service.

**Wis., Sheboygan**—Capt. Wm. Trotter of Milwaukee was elected chief of the Sheboygan fire department.

#### BIDS WANTED.

**Mont., Columbus**—Bids will be received until January 18, by Geo. A. Westover, city clerk, for 500-ft. 2½-in. woven cotton rubber lined fire hose, complete with couplings, also two-ply pipes with shut-off nozzles, also one 500-ft. capacity reel for the hose, check for 10 per cent.

**N. D., Fargo**—City will advertise for 500 feet cotton fire hose, and with 300 more or less feet of rubber hose; address city commissioners; later date for bids will be Jan. 26, 5 p. m.; check for 10 per cent; A. R. Watkins, county auditor.

### RAILROADS

**Minn., Duluth**—D. W. & P. roundhouse recently burned, will be rebuilt in sixty days. J. L. Pickles, chief engineer.

**Mont., Billings**—A large icing station will be built here by the G. N.; cost \$2,000; 50x60.



## Concrete Roads and the Cement Show

CONCRETE road-building machinery, protection plates, reinforcing material and labor saving devices are annually becoming a more predominant feature of Cement Show exhibits because of the almost universal use of a concrete base for all permanent roads and because of the widespread popularity of the all-concrete pavement. The Universal Portland Cement Co. will portray by models and diagrams the best practice in concrete road building and the economy of concrete roads.

Cement Show visitors will find the new roads in Cook County built under the State Aid road law of Illinois, which went into effect last June, worthy of inspection. All of the 13½ miles of state aid roads in Cook County were built of concrete. Many other country concrete roads are easily accessible from Chicago.

Within a short distance from the Coliseum—on 21st Street near the lake—is a two-course reinforced concrete pavement built to carry heavy traffic. This and the driveways in the business district of the American Steel & Wire Co., laid in 1903, and of Butler Bros., both near Canal and Randolph Streets, show how well concrete pavements withstand heavy warehouse trucking.

From 1908 to 1913 a total of 129,744 square yards of concrete alley paving was laid in Chicago and proved so popular that the total laid in 1914 alone approximated 125,000 square yards. Chicago also affords excellent examples of concrete paving between car tracks, a type destined to grow rapidly in popularity.

An opportunity will be afforded to visit the Universal Plants. Passes for the trip may be obtained at the general office of the company.

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Concrete Pavement, Glencoe  
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Laying Concrete Pavement between street  
car tracks, Lyons (Cook County), Ill.





**Neb., Beemer**—A modern station will be built here.

**Neb., Battle Creek**—A petition is being circulated among the business men and farmers asking the N. W. officials to build a new depot.

**Neb., Virginia**—Rock Island station was destroyed by fire loss \$2,000; company will rebuild.

**N. D., La Moure**—Large Northern Pacific depot was burned; announcement about rebuilding not yet made; loss about \$10,000.

**Wis., Crandon**—Contracts have been let for grading on line from Crandon to Shawano, by the Wisconsin & Northern Railroad Co., C. H. Hartley, manager.

**Wis., Crandon**—General manager Hartley of the Wisconsin & Northern was here recently to award contracts for the line from here to Shawano; contracts let for clearing and grading 10 miles.

**Wis., Milwaukee**—According to the engineer it is proposed to construct a belt line of railway connecting lines entering city of St. Petersburg; total length of about 63 miles.

**Wis., Waumundee**—Articles filed with register of deeds Buffalo county, incorporating the proposed farmers' line, Montana-Waumundee Railroad Co., to run through the Waumundee valley; incorporators, include: Geo. H. Helwig, C. W. Senty, Louis Zeller, of Montana and Waumundee, and F. D. Brandenburg, 2616 Aldrich av. S., Minneapolis; (a firm of contractors, the Brandenburg Construction Co., E. G. Brandenburg, president, has offices at 730 Temple Court, Minneapolis.)

## NEW FIRMS INCORPORATED

**Iowa, Boone**—Otis Lumber Co., Chas. Otis, J. A. Engstrom, H. G. Rice.

**Iowa, Burlington**—Sherrill & Co., (electric), \$100,000; L. R. Sherrill, Artemis Smith and L. Miller.

**Minn., La Porte**—La Porte Co-operative Creamery Co., \$3,000; A. P. Johnson, J. E. Pierce.

**Minn., Mapleton**—Home Electric Co., \$50,000; V. J. Greiner, Dr. L. W. Krueger and others.

**Minn., Minneapolis**—Simple Gas Engine, \$100,000; A. L. Preimsberger, Fred Preimsberger, John Zeta.

**Mont., Billings**—Ryniker-Winter Sheet Metal Works, \$25,000; H. H. Winter, W. E. Ryniker, E. J. Sielmann.

**Mont., Glentana**—North Beach Implement Co., \$10,000; R. B. Marsh, C. B. Linderman, Selma Holmes.

**N. D., Bismarck**—German-American Printing Co., \$25,000; Hon. J. N. Wishek, Jacob Rothchiller and others.

**Wis., Fairweather**—The Fairweather Electric Co., \$25,000 John Laper, J. O. Laper and Jesse W. Laper.

**Wis., Fond du Lac**—The Boex-Holman Co. have increased its capital stock from \$100,000 to \$125,000.

## RESIDENCES

**Iowa, Burlington**—Architect W. F. Weibley, 510 Tama building, is preparing plans for a 1½-story residence, 24x32, owner's name withheld; frame shingle roof.

**Iowa, Davenport**—Permit issued to S. Weisman for Max Shapiro, for a 3-story brick dwelling, cost \$5,500, to Wm. Von Dohlen, for Wm. Popp for a 1½-story frame and plaster dwelling, cost \$1,600.

**Iowa, Des Moines**—Fire destroyed the apartment building of Mack Oleson; loss \$12,000.

**Iowa, Des Moines**—F. A. Harris, architect, 3815 4th av., Des Moines, has prepared plans for a 2-story and attic residence, for C. C. Proper; brick, concrete and steel, fireproof, 35x53, bids will be taken soon by architect; modern throughout, reinforced and steel beams, tile reinforced concrete, fireproofing, cut stone, common, pressed enamel fire hollow brick, several colors, furnace, steam, hot water heat, city water, copper and galv. sheet metal, cor., tile, tin comp. roof, composition, patent, ornamental plaster, metal lath, corner bead, specified paints, Rinald Bros., etc., several makes of varnish, plate, figured, art, leaded glass, tile floor wainscot, hearth, marble interior, birch, oak, maple, composition and fancy floors, oak, birch and yellow pine finish, etc., two dumb-waiters, one wall bed, garage fittings, turntable, gasoline storage; also intercommunicating telephones, gongs, electric worker, vacuum cleaning, etc.; address all communications to architect.

**Iowa, Findlay**—Plans are in progress by architect, W. F. Weibley, 310 Tama building, Burlington, for a 1½-story residence for Dr. E. H. Westfall, 28x40, frame, shingle roof, cost \$4,000; plans will be sent to owner.

**Iowa, Keokuk**—Plans completed and work will start in the spring on a 1½-story residence, 34x46, for L. F. Rollins, 720

Blondeau st., stucco, on hollow tile, shingle roof; architect, H. E. Ratcliff, Dorsey building.

**Iowa, Primghar**—Dr. Leroy Emery will erect a modern residence in the spring.

**Iowa, Wapello**—Bids will be taken in the spring for a 2-story residence for Gertrude Jamison, Morning Sun, Iowa, 26x38, cost \$4,000; S. L. Heaps, architect, 203 German American Bank building, Burlington, Iowa; frame shingle roof.

**Iowa, Williams**—Capt. E. S. Simpson will erect a modern residence in the spring.

**Mont., Lewistown**—Dr. J. H. P. Gauss is having plans prepared for a modern residence.

**Mont., Three Forks**—Messrs. Dwyer and Waldorf, local architects and civil engineers, are working on plans for a modern bungalow for R. B. Culbertson.

**Neb., Cook**—Chas. Fowler will erect a modern residence.

**Neb., Kearney**—Mrs. Mary Jenkins has let contract to David Williams, for erection of a modern bungalow.

**Neb., Salem**—Ed. Morgan will erect a modern residence in the spring.

**Neb., University Place**—Mrs. Mary Bonher will erect a residence in the spring.

**N. D., New England**—Jos. Stecher of Havelock township will erect a new residence in the spring, to replace one burned recently.

**Wis., Beloit**—Fire destroyed the residence of S. M. Hamel; loss \$3,000.

**Wis., Cooperstown**—Fire destroyed the home of Michael Flaherty of Stark; loss about \$8,000; insured at \$4,000; will rebuild at once.

**Wis., Glenwood City**—Fire destroyed the home of Fred Grey in town of New Haven; loss about \$3,000; partly insured.

**Wis., Glenwood City**—Fire destroyed the farm home of D. J. Prichard; loss \$1,000; insured at \$600.

**Wis., Luxemburg**—W. E. Reynolds, architect, Green Bay, Wis., take bids until Jan. 19, for construction of a \$7,500 residence and chapel for the sisters of St. Francis here, Brown county; Rev. H. Hunk, priest in charge.

**Wis., Milwaukee**—Wm. Hammann will erect a \$5,000 frame duplex flat building.

**Wis., Milwaukee**—A \$5,000 residence will be erected by H. T. McCallan.

**Wis., Milwaukee**—A. Teweles will erect a \$25,000 residence soon; Mrs. Nazro will also erect a residence costing \$15,000.

**Wis., Milwaukee**—A 4-flat building, 40x131, will be erected by Leenhouts & Guthrie, architects, cost \$50,000, the apartments will consist of one single room and bath, principal room, 12x13, will have 32 apartments, in addition to the one-room apartments it will contain some two and three-room apartments, foundation and flooring on first floor of concrete, steel skeleton brick walls, fireproof, hardwood finish throughout, main stairway of marble and iron, rear stairway of iron and balconies of iron and concrete, marble vestibule and wainscoting, freight elevator and garbage incinerator, architects preparing plans and bids will be taken about Jan. 15; work to be started as soon as possible.

**Wis., Milwaukee**—Oscar Leistokow will erect a frame bungalow.

**Wis., Milwaukee**—A frame and stucco residence and garage will be erected by J. J. Stamm, cost \$5,700; a \$30,000 residence will be erected by Julius A. Andrae.

**Wis., Montfort**—B. W. Doran will erect a modern bungalow in the spring.

**Wis., Neenah**—Plans are out for a modern residence for Evald Jersild.

**Wis., New Richmond**—A number of cottages are planned for Sundval Beach and elsewhere, on Cedar Lake, the coming season; A. H. Lynch, and Van H. Armstrong and Ward S. Williams, interested.

**Wis., Sherwood**—A new parsonage will be erected here the coming summer.

**Wis., Sheboygan**—Tony Gerber has had plans made for a new modern residence on his farm near Pine Lodge.

**Wis., Wausaukee**—C. E. Burns will build a house in the spring.

## PARKS AND CEMETERIES

*Notes arranged alphabetically by States.*

**Wis., Sheboygan**—Peter Reiss of the Sheboygan Railway & Electric Co. has purchased 23 lots at Crystal Lake and will convert same into a public park.



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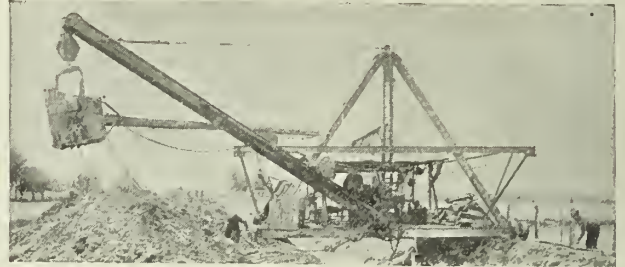
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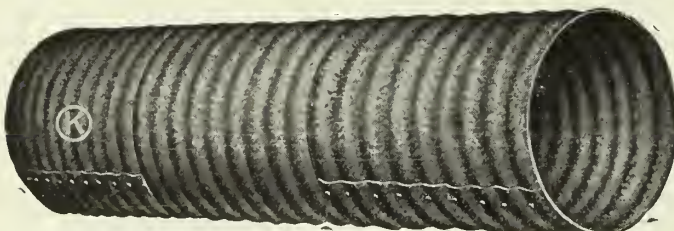
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## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**Idaho, Sandpoint**—City attorney has been instructed to prepare preliminary ordinance for paving of Main st.; approximately 5,378 lineal feet, and total cost from \$65,000 to \$150,000; address city clerk.

**Ill., Moline**—The city council is considering paving with brick asphalt the fill in the 4th st. district, amounting to 9,610 square yards and on 1st st. to the amount of 2,780 square yards; address city clerk.

**Ill., Moline**—Council proposes approximately two miles of sidewalk for this year, Lyle Payton, city engineer; City Engineer Payton expects to let contract about March 1, for 45,178 square yards, brick paving on 5-inch concrete base and also 32,095 feet of curb and 22,079 cubic yards excavation.

**Ill., Rock Island**—Improvement board to pave 18th av. with brick instead of asphalt as originally planned; 10,100 square yards, estimated to cost \$26,600. Improvement board has recommended the Highland Park paving project at a cost of \$15,000; Wallace Treichler, city engineer.

**Ill., Rock Island**—The board of public improvements has voted to improve 21st st., by paving with brick at a cost of about \$15,000; address city clerk.

**Iowa, Burlington**—The paving of Sumner st. with 5,000 yards of concrete or gravel and 8,000 yards of macadam will come up soon; also, about 5 blocks on Jefferson st. for which the kind of paving has not been decided; H. J. Vollmer, city engineer.

**Iowa, Cedar Falls**—Paving committee has been instructed to prepare resolution of necessity for upwards of 40 blocks of paving, the intention being to wind up the preliminaries as rapidly as possible in order that an early start can be made on actual construction. The streets to be paved include: 6th st., from Washington to College; 18th st., from Clay to College; State st., from 5th to 15th; Walnut st., from 2d to 12th; Main st. from 16th to 18th; and Franklin and Tremont sts. between 22d and 24th sts.

**Iowa, Cedar Falls**—Hearing Jan. 25, on the necessity of some 47 blocks of street paving; resolution provides for bids on three kinds of material—aspalt, asphaltic concrete and brick, the latter to be used on only a block or two. In addition the repaving of Main st. is under consideration; address city clerk.

**Iowa, Clarinda**—Hearing Jan. 8, on grading, curbing, guttering and paving on Grant av. and also on 13th st., paving to be either concrete, or asphaltic concrete, curb exposure to be six inches and width of the gutter 15 inches; T. A. Wilson, city clerk.

**Iowa, Perry**—Chas. Wilson, city engineer, ordered to prepare plans for the paving of W. Willis av., to be submitted to the council on Jan. 25.

**Iowa, Sac City**—Plans completed for grading and graveling 5 miles of county road; W. D. Maxwell, engineer, Sac City, Iowa, J. Wilbur Neal, county auditor.

**Iowa, Sioux City**—Total cost of the improvement of the five roads running out from here will be about \$200,000; work being planned for now; secretary of the Commercial club for particulars.

**Iowa, West Liberty**—Additional paving for the coming year is being planned; address city clerk.

**Iowa, Tama**—Definite action expected to be taken soon on the paving of High st. from 9th to Bee st.; also, Oswego st. from 7th to 9th, and 8th from State to Hall st.; address city clerk.

**Kans., Independence**—Definite action will probably be taken soon on paving the 10th st. road; petition in circulation to pave with brick; address county clerk.

**Kans., Topeka**—Grading, curbing, guttering and paving Van Buren st., 1st av. to 3d st., vitrified blocks on 5-inch concrete base with asphaltic filler; grading and curbing Fillmore st., Euclid av. to 19th, combined cement curb and gutter, asphaltic curbing on 4-inch concrete base; resolution passed by board of commissioners; W. S. Tandy, commissioner; C. B. Burge, city clerk.

**Minn., St. Paul**—J. H. Armstrong, county surveyor, will recommend the county board to let contracts for about 21 miles of road work in Ramsey county for the present year. He expects to move from 300,000 to 350,000 cubic yards of material in White Bear Lake the coming season.

**Minn., St. Paul**—The proposed improvement of Concord st. from St. Paul to So. St. Paul has been approved by a special committee of the So. St. Paul council; total cost will be \$90,000, and of this amount it is hoped that Ramsey county will give \$50,000.

**Minn., St. Peter**—Contributions are being made by various towns and cities for the scenic highway route; about \$6,000 required, without surfacing with gravel; W. H. Holtz, auditor, Nicollet county, St. Peter.

**Mo., Chillicothe**—Plans in preparation to widen and repave S. Locust st.; contract to be awarded probably soon; W. L. Wanamaker, city clerk.

**Mo., Potosi**—W. R. Heagler, civil engineer, has been retained to make surveys and prepare plans for the Potosi special road district, Washington county, Mo.

**Neb., Havelock**—Definite movement on foot for a paved boulevard between Havelock and University Place; Commercial club back of the proposition.

**Neb., Norfolk**—A petition is in circulation for paving on a number of streets; address city clerk.

**Neb., Omaha**—Ordinance being published for improving of that part of Charles st. from 18th to 20th st., 15th st. from Lincoln av., to Vinton st., that part of 44th from Dodge to Harney, Grant st. from 24th to 27th, 25th av. from Spaulding to south of Evans, by paving, curbing and guttering, and that part of Farnam st. from 20th to west line of 24th st. by repaving; Thomas J. Flynn, city clerk.

**Ore., Falls City**—Road is to be built between Falls City and the Sieltz county line at a cost of about \$50,000; address county clerk.

**Texas, Temple**—Bonds voted for grading, paving, curbing, etc., to the amount of \$300,000, work to start in the early spring; address city clerk.

**Wash., Davenport**—It is planned to begin county road work in the spring amounting to about \$46,000; address county clerk.

**Wash., Dayton**—Columbia county has appropriated \$333,729 for maintenance and construction of permanent highways during the year; address county clerk.

**Wash., Montesano**—About \$335,000 will be spent by the county commissioners in the spring and summer for highways.

**Wash., North Yakima**—The commissioners of Yakima county have voted to macadamize 2 miles of the Naches valley highway and gravel 4 miles of the Toppenish-Wapato road.

**Wash., North Yakima**—O. E. Brashears, deputy county engineer, is making plans for an early start in road building in 1915; resolutions adopted for macadamizing 2 miles in Naches and graveling 4 miles of the Toppenish-Wapato road; plans being made by N. A. Gilman, city engineer, for paving of 1st av., probably with brick.

**Wash., North Yakima**—The city engineer has prepared plans for paving 1st av. at a cost of about \$15,000; address city clerk.

**Wis., Beloit**—City Engineer Heebink estimates the amount of paving to be done in 1915 as follows: asphalt, 113,670 square yards; Hillside brick, 12,930 square yards; concrete, 1,413 square yards; macadam, 4,056 square yards; and concrete curb and gutter, 98,230 feet.

**Wis., Elm Grove**—Representatives of Waukesha and Milwaukee county boards have completed arrangements for building a mile of county highway at a cost of \$12,000, which will connect Watertown plank and Blue Mound roads; Ray M. Funk, county clerk, Waukesha.

**Wis., Kenosha**—It is expected that bids will be taken late in January on paving of Charles st.; brick, concrete foundation with asphalt filler, and combined concrete curb and gutter; B. C. Brennan, commissioner of public works.

**Wis., Superior**—Lower Tower av. will be paved the coming spring and summer from 1st to 3d sts.; brick is being considered, at a cost of about \$10,000; F. Tomlinson, head of street department.

**Wis., Superior**—City expects to purchase a grader and tractor; F. Tomlinson, commissioner.

**Wis., West Bend**—The Washington county board has appropriated \$1,500 for road oiler and other road machinery.

### BIDS WANTED.

**Iowa, Ottumwa**—Bids received by John T. Brady, city clerk, until Jan. 11, for paving on Court st. and other sts.; the work includes resurfacing, with brick, 27,142 square yards, 1-course, Portland cement fill, on foundation between existing curb and 284 lineal feet, 40x12-inch curb; new work, 1-course brick paving, 13,342 square yards Portland cement fill, on 6-inch Portland cement concrete; 8,675 lineal feet, 6x20-inch curb and streets, and 1,988 feet 4x12-inch curb and alleys and headers; brick to be Purington or equal.

**Minn., Duluth**—Bids received by C. S. Palmer, clerk of the city of Duluth, until 10 a. m., Jan. 11, for the following material. 400 feet 6-inch vitrified pipe; 3,900 feet 8-inch; 700 feet 10-inch; 700 feet 12-inch; 1,300 feet 15-inch; 3,000 feet 18-inch; 700 feet 20-inch; 125 feet 24-inch; 175 feet 8-inch by 6-inch Y's; 45 15-inch by 6-inch Y's; 50 18-inch by 6-inch Y's; 54 18-inch by 6-inch T's; 102 barrels cement, 60 cubic





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**Minn., St. Paul**—Bids received by August Hohenstein, purchasing agent, until 10 a. m., Jan. 18, for grading and improvements in alley in block 16, Rice & Irvine's addition; check for 10 per cent; also, at some time, for grading and improvement of Van Buren st., Lexington av. to Oxford st.; check 10 per cent.

**Mo., Edina**—Bids received by Chas. Shumate, city clerk, until 5 p. m., Jan. 15, for artificial stone curbing on both sides of Lafayette st. from 2d to 5th st., approximately 1,810 lineal feet; artificial stone curbing on Main st., 1,925 feet; grading and paving Lafayette st. with 3-inch vertical fibre blocks on 4-inch concrete base, approximately 5,820 square yards grading and paving Main st. with some material, approximately 6,875 square yards; Tuttle & Pike, consulting engineers, Kansas City, Mo.; deposit of \$50 with each bid for curbing and \$200 with each bid for paving.

**Ore., Bay City**—Bids received by J. C. McClure, city recorder, until Feb. 4, for street improvements to cost \$35,000.

**Texas, Belton**—Bids received by W. E. Hall, auditor of Bell county, until 10 a. m., Jan. 13, for about 40 miles of gravel road; certified check or bond for \$5,000; plans on deposit of \$10.

**Texas, Greenville**—Bids received by W. M. Henly, secretary and auditor, until Jan. 27, for improved highways for Hunt county, for which \$400,000 is available; plans at office of Julian C. Field, consulting engineer, Denison and Greenfield; check 5 per cent.

**Texas, San Antonio**—Bids received by W. A. Crossland, U. S. senior highway engineer, city, for 71 miles of post roads, to be graded and surfaced with gravel; \$229,000 available for the work.

**Texas, Sulphur Springs**—Bids received by city secretary until 11 a. m., Jan. 19, for 35,000 square yards pavement; also for concrete curb and 12,000 cubic yards earth excavation. A. D. Stevens, city engineer.

**Wis., Fountain City**—Bids received by J. Reinhardt, county highway commissioner, until 1 p. m., Jan. 7, for 150 cords of good sound limestone rock for macadamizing the dugway on North st., Fountain City; check for \$100.

#### CONTRACTS AWARDED.

\***Mich., Crystal Falls**—Contract awarded for ten and three-quarter miles of road construction in Iron county, to the Widell Co., Mankato, Minn., low bidders, at \$29,671; other bids: A. D. McRae, Iron River, Mich., \$30,793; Smith, Byers & Sparks, Houghton, Mich., \$36,175; Ax Maus & Co., Bessemer, Mich., \$31,940; Gust Tradeau & Son, Norway, Mich., \$42,429; C. C. Butler, Virginia, Minn., \$41,281; Hix & Barber, Vulcan, Mich., \$29,951; McGrath & Son, Green Bay, Wis., \$31,470; D. F. Doyle & Co., Crystal Falls, Mich., \$31,565; estimate of Engineer A. L. Burrige, \$31,000. Wm. Holmes, chairman of county board; J. S. Wall and J. T. Gibson, members.

**N. D., Bowbells**—Contract to D. C. Smith, Minot, N. D., for grade work between Ward and Burke counties for a distance of about 2,600 feet.

**Ore. Bandon**—Contract to W. H. Webb, city, for improving and constructing concrete sidewalks on Oregon av., at a cost of \$11,900.

**Ore., North Bend**—Contract to Moughmer & Roop for making curbing for Sherman av. and for most of the concrete work on this street.

**Texas Bonham**—Contract to Owens Construction Co., Vicksburg, Miss., for two separate road and bridge contracts at \$66,580.

**Texas, Celina**—Contract to J. Fred Smith, Dallas, Texas, for construction of county roads out from Celina; bond issue of \$125,000 taken in payment.

**Wis., Black River Falls**—Contract to Anton Koran of Upper Brockway for surfacing over one mile of roadway with shale, requiring 1,800 yards.

at each end, concrete substructure, total cost \$500,000; work will be ready to advertise for bids about April 1.

**Kans., Salina**—County commissioners have appropriated \$26,000 for cement bridge across Smokey Hill river at Iron av., city to pay balance, amounting to \$4,000; total cost of bridge \$30,000.

**Kans., Leavenworth**—City Engineer Harry Perkins has reported that it will be necessary to construct a new bridge over South st.

**Kans., St. Anthony**—Harris & Eastman, engineers, Hutchinson, Kans., have completed plans for the following concrete reinforced bridges: one 299 feet, 9-span; one 88 feet, 4-span; one 45 feet, 2-span and two to be 23 and 33 feet, 1-span each; R. B. Heacock, Attica, Kans., chairman of board of county commissioners.

**Kans., Topeka**—Ordinance passed approving plans prepared by and submitted by city engineer for reconstruction of the 6th av. viaduct over railroad tracks and ordering re-

**Kans., Turner**—Bids will be called for Jan. 10, for repair to approach to Turner bridge, 350 cubic yards concrete, \$10,000, steel Y concrete piers, reinforced concrete and wood piles, creosote block; Robert McAlpine, chief engineer, Court House, Kansas City, Mo.; F. M. Holcomb, clerk, Wyandotte county, Kansas City, Kans.

**Minn., Faribault**—County commissioners have taken favorable action on petition of city council for appropriations out of the county road and bridge funds for improvements of bridges located on state highways within city limits, a new bridge authorized across tail race of Straight river; bridges across Canno river improved and bridges across south channel of river; cost about \$10,000.

**Minn., Faribault**—City is planning to spend about \$10,000 in improvement of its bridges the coming season.

**Minn., St. Paul**—Ordinance passed by council for bridge over Marshall av. by St. Paul Railway.

**Mont., Deer Lodge**—Work will start next week on construction of two large iron bridges west of city.

**Mont., Livingston**—The wooden bridge at H st. will be replaced by a steel structure in the spring; contract awarded to the Minneapolis Steel & Machinery Co., at \$6,500.

**N. D., Bottineau**—Plans are being discussed for a bridge over Mouse river near here.

**N. D., Grand Forks**—Matter is being discussed by the city council and city commissioners for erection of a bridge across the river at DeMers av., to replace one recently burned, matter will be taken up again soon for more definite solution.

**N. D., Stanton**—Work on approaches to bridge here has been postponed until state engineer passes on bridge.

**S. D., Elk Point**—All bids were rejected on steel, wood and concrete bridges in Union county, new bids will be readvertised for and opened about March 2.

**Wash., Seattle**—Plans appropriated for approaches to bascule bridge over Lake Washington canal and bids will be called for at once, by city; work calls for following: 40,000 feet creosoted lumber, 1,700 feet plain lumber, 7,270 square yards of asphalt flooring, bolts, nails, etc., 12,000 pounds, 59,500 feet of piles, one 84-foot and one 88-foot Howe truss span, fire protection and lighting system; estimated cost \$95,000.

**Wash., Seattle**—R. T. Lawrence, city, awarded contract for detouring bridge from Sprague av. to Hillard st., over N. P. freight house to Division st. and Riverside by W. J. Hoy Co., general contractor, at \$20,000.

**Wis., Independence**—It is reported that bids will soon be taken for a creosote block floor on span bridge crossing Elk Creek; plans at office of village clerk, Jacob Jackson, Independence; check 20 per cent; \$1,000 bond required.

**Wis., Milwaukee**—The department of public works of Milwaukee is obliged to defer the call for bids for construction, of proposed new State-Martin st. bridge, costing \$175,000, until agreement has been reached by property owners in matter of condemning real estate on east approach with the idea of straightening line of the bridge; appropriation was available July 1, 1914, and plans completed by Geo. F. Staal, city engineer, Fred G. Simmons, commissioner of public works.

**Wis., Viroqua**—The Worden-Allen Co., Milwaukee, was awarded contract for steel bridge over Kickapoo river at Seelysburg at \$4,874; 120-foot span, with tube piers.

#### BIDS WANTED.

**Minn., Ada**—Bids received until Jan. 12, for about 27 bridges and 10 large and also 30 small culverts to be built over judicial ditch No. 52, bridges cost about \$24,820 and culverts \$4,500; D. E. Fulton, auditor, constructing of said viaduct.

**Minn., Roseau**—Bids will be taken Jan. 18, 3 p. m., for 28 culverts over ditch No. 20, Roseau county, estimated cost \$536; cost of installing culverts \$280; S. G. Bertilrud, county auditor.

**Mont., Great Falls**—Bids will be received Jan. 12, by U. S.

## BRIDGES

*Notes arranged alphabetically by States.*

**Iowa, Sioux City**—Council are considering construction of a new bridge over the Big Sioux river to replace present bridge; E. O. Wesley, councilman.

**Kans., Great Bend**—Matter will be taken up early in January for a concrete bridge 400 feet with 24-foot roadway, across Ark river, at Ellenwood; C. F. Younkin, clerk, commissioners, Barton county.

**Kans., Kansas City**—Plans are being prepared by R. L. McAlpine, county surveyor, for bridge over Kansas river at Central av., 3-span, steel, 744 feet, with 750-foot approaches.



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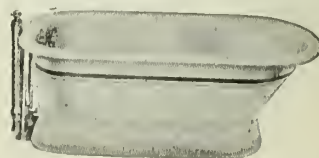


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**Neb., Kearney**—Bids received until Jan. 25, by city clerk, for steel architectural bridge, 46-foot span.

**Neb., York**—Bids received until Jan. 12, for bridge construction 1915, including about 15 bridges, two 12-foot spans, three 16-foot spans, four 50-foot spans, one 32-foot span, one 65-foot span, one 60-foot span and three 70-foot spans; address county clerk.

**S. D., Wheeler**—Bids received until Jan. 14, 2 p. m., for all corrugated galvanized culverts for 1915, in Charles Mix county, also bids will be received for steel culverts 14 inches in thickness; certified check \$200; F. J. Kaberna, county auditor, Charles Mix county.

**Wis., Green Bay**—A. Brauns, city engineer, has completed plans for the proposed new Main st. bascule bridge over Fox river, cost \$170,000, 535 feet long, steel superstructure and concrete substructure, and approaches; date for bids not yet determined.

**Wis., Iron River**—Bids were in last Saturday Dec. 26, for bridge over Iron river, and contract awarded to the Stein Construction Co of Medford, Wis.

**Wis., Milton**—Bids will be received until 1 p. m., Jan. 14, for highway bridge, 18x20 feet, I-beam span, concrete abutments on section 25, Buffalo county; plans at office of county highway commissioner, Nelson, Wis., chairman of the town of Milton, also county clerk's office; check 10 per cent; J. Reinhardt, county highway commissioner.

#### CONTRACTS AWARDED.

**Kans., Marion**—Contract awarded to Peter Harms of Hillsboro, for concrete bridge south of town, at \$1,495.

**Minn., Bemidji**—Contract awarded to the Klauer Manufacturing Co., Dubuque, Iowa, for 182 corrugated metal culverts for judicial ditch No. 21, at \$4,580.

**Ont., St. Catharines**—Contract awarded to the Canadian Bridge Co. of Walkerville, for \$91,000 for steel superstructure for St. Paul st. high bridge over the old Welland Canal.

**S. D., Wessington Springs**—Contract awarded to the Hayes-Lucas Lumber Co. for culverts for 1915, and contract for bridges in 1915 awarded to J. A. Housman; N. B. England, county auditor.

**Texas, Bonham**—Contracts awarded to Owens Construction Co., of Vicksburg, Miss., for two separate road and bridge contracts, at \$66,580.

**Wis., Madison**—Contract awarded to Webber & Gay, Madison, Wis., for reinforced concrete architectural bridge, at \$7,385.

**Wis., Port Wing**—Contract awarded to the Worden-Allen Co. of Milwaukee over the Nelson Creek; also bridge over Park river, in town of Herbster.

**Wis., Superior**—Contract awarded to Murphy & Erickson, contractors, for bridge over Bear Creek near Itasca, at \$1,900; city commissioners will also let contract for improvement of the Lamborn av. bridge.

**Wis., Waburn**—Contract awarded to the Wausau Iron Works Co. for bridge over Pike Creek at Salmo and bridge over Mussell Creek on Sand River road.

## SEWER WORK

**Ark., Harrison**—Election in March or April to vote on issuing bonds in amount of \$90,000 for sewer and water systems. Geo. C. Few, mayor.

**Iowa, Audubon**—Special election Jan. 16, to vote on bonds for proposed sewer system; H. J. Mantz, mayor.

**Iowa, Clinton**—City engineer has completed plans and estimates for construction of sewer in district No. 3; address city clerk.

**Iowa, Lake View**—The Commercial Club is discussing a city sewer system. Address city clerk.

**Iowa, Lenox**—Theo. S. DeLay, Creston, is preparing plans for a sewer system, to be constructed during 1915.

**Iowa, Mason City**—Sanitary sewer work contemplated here for the spring includes construction of 41,000 feet. J. H. McEwen, city clerk.

**Iowa, Ottumwa**—City will construct sewers in Pleasant, Ottumwa, Green and Lincoln sts., in all about 1,800 feet; J. T. Brady, city engineer.

**Iowa, Tama**—City council taking steps to put in a storm sewer and fill up Mud creek; cost about \$20,000.

**Kans., Chanute**—Order has been made by the state board of health for the city to install sewage disposal plant before Jan. 1, 1916; cost from \$25,000 to \$100,000; address city clerk.

**Minn., Duluth**—First section of the sewer system for New Duluth and Gary has been ordered by the council; will give

employment to ten laborers at twenty-five cents an hour; some of the trenches will be thirty feet deep, and the council will take out liability insurance. Roderick Murchison, commissioner.

**Minn., Hibbing**—Reported the village council will advertise at once for the installation of proposed sewer system in Alice, cost \$50,000; E. D. Hawley, city engineer.

**Minn., Duluth**—The city authorities have ordered sanitary sewers in Commonwealth av. and in Fairmont st., to be done by contract or day labor as the commissioner shall determine; Roderick Murchison, commissioner.

**Mont., Billings**—Petition before council for sewer between S. 37th and S. 38th sts., from 1st av. to State av., estimated to cost \$2,850; address city clerk.

**Mont., Glendive**—Council taking final steps preparatory to laying about 6,000 feet of sewer pipe on the south side, costing \$6,100. C. W. Bowles, city clerk.

**Neb., Broken Bow**—Election Feb. 9, on issuing bonds for sewers in amount of \$17,000; address city clerk.

**Neb., Broken Bow**—Special election Feb. 9 to vote on issuing bonds for \$17,000 to aid in construction of a system of sanitary sewers and sewage disposal works. R. E. Thompson, city clerk.

**Neb., Norfolk**—Ordinance passed for construction of sewers on N. 8th st.; P. F. Stafford, city clerk.

**Neb., Norfolk**—Plans and specifications for sewer district No. 46 have been accepted. Address city clerk.

**Okla., Wilburton**—Benham Engineering Co., American National Bank building, selected to make reports and estimates for sewers and water works; election will be called to vote on bonds, probably to amount of \$80,000; address city clerk.

**Ore., Portland**—Council has been considering the repair of E. Adler st. trunk sewer between E. 2d st. and Willamette river; cost \$20,000; address city clerk. City council reported to have approved plans for sewer in 47th st. SE. and 26th av. SE.; also for sewers in 48th and 49th sts. SE.

**Texas, Cleburn**—Burns & McDonnell, Kansas City, preparing plans and specifications for a new sewer system.

**Wash., Aberdeen**—Council has instructed the city engineer to prepare plans for trunk sewers on Sumner, Jefferies, Martin, Duffy and other sts., and to cost about \$40,000; address city clerk.

**Wis., Appleton**—T. W. Orbison, architect and engineer, Appleton, is completing plans for the new Atlantic st. sewer, from N. Division st. to Bellaire Park, approximately 5,100 lineal feet, of vitrified block or concrete in varying diameters of 56 to 96 inches; bids will be called for without delay.

**Wis., Fond du Lac**—Final estimate of the engineer for construction of a sanitary sewer in Western av., from Military st. west to east branch of the Fond du Lac river, has been approved. J. F. Hohensee, city clerk.

**Wis., Janesville**—The common council is about to advertise for bids for the construction of an 18-inch tile storm sewer in River st. from W. Bluff to Wall sts.; J. Kerch, city engineer.

**Wis., Oshkosh**—Hearing Jan. 30, on sewer in 12th ward; R. A. Hollister, chairman, board public works.

**Wis., Racine**—P. H. Connolly, city engineer, is ready for bids on a sewer in 18th st., about 340 feet of 8-inch pipe.

**Wis., Superior**—All bids rejected for sewer between Catlin and Fisher avs., from Broadway to 14th sts.

**Minn., Hibbing**—Contract to Butler & Cooms Contracting Co., city, for construction of Alice sewer; their bid was 10 per cent for actual cost of labor; estimated cost will be from \$50,000 to \$60,000.

**Wis., Waupaca**—City will probably lay half mile of sewer in the spring, 8-inch vitrified pipe; C. W. Nelson, city engineer.

**Wis., Whitewater**—Bids will soon be taken by A. N. Savee, city clerk, on 4 miles of sewer, 8 to 15-inch vitrified pipe; Wm. G. Kirchoffer, engineer, Vrooman block, Madison, Wis.

#### BIDS WANTED.

**Mont., Kalispel**—Bids submitted for a sewer in district No. 161 as follows: C. H. Kelley, \$979 and \$5 for each house connection; Thos. Odegard, \$565 and \$2.50 for each connection; Sam Odegard, \$450 and \$2.50 for each connection.

#### CONTRACTS AWARDED.

**Iowa, Emmetsburg**—Contract to John Dooley, city, for 1,650 feet of 8-inch sewer, 1 flush tank, 4 manholes, etc., at \$2,530.

**Iowa, Iowa Falls**—Contract to Moore & Moore, Waterloo, for sewer contracts for districts 15 and 16 at \$23,828; about 20 bids were considered; expected work will begin within a week or so, as contract is to be completed by July 15.

**Iowa, Le Mars**—Contract to Wynia & Sullivan for sewer work from 6th to 10th sts., at 66c per lineal foot, \$43.50 for manholes and \$75 for flush tanks.

**Iowa, Ottumwa**—Contract to L. Harness, Wapello st., So. Omaha, Neb., for 10, 12 and 15-inch sewers.



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**Okla., Lawton**—Contract to Mayfield & Shaw, Ft. Bliss Texas, for storm water sewer system for the north addition, at \$27,308; to be completed in 120 days.

**Wash., Seattle**—Contract to L. Colluccio, 1642 Lane st., for sewer in Eli av., at \$20,879.

**Wis., Superior**—Contract for Frosserom & Mattson for a sewer between Norwood and Maple sts. from Gates to Raspberry avs. in Central Park, at \$1,075.

## ☞ DRAINAGE AND IRRIGATION ☞

**Iowa, Carroll**—Hearing Jan. 14, on proposed county ditch 20; Geo. A. Poepppe, county auditor.

**Iowa, Oskaloosa**—Hardin county new drainage ditch No. 39, will cost about \$170,000; will drain over 6,000 acres.

**Iowa, Sibley**—Commissioners appointed Geo. W. Protector, special commissioner on drainage petition, Dickinson county, by R. J. Robertson.

**Mont., Billings**—Petition of the Waco-Custer Ditch Co. for right-of-way for a new irrigation ditch through Crow Indian reservation was granted by district court, Judge Pierson.

**Neb., North Platte**—The irrigation question along the Platte river, will be again threshed out at a conference to be held in North Platte, during the early part of January, probably the 15th.

**Wis., Antigo**—It is reported on good authority that the Wolf River Improvement Co. intends to push work on its mammoth reservoir project during the spring and summer; plans call for a concrete dam, 26 feet high in the town of Ainsworth, to flood 18,000 acres, and a 20-foot concrete dam in the town of Elcho to flood 19,500 acres; both dams are to be equipped with gates for regulating the flow into Fox River and Winnebago lake.

**Wis., Appleton**—Investigation has been made by Mark Catlin, of the swamp land near Shiocton, where a new drainage district may be organized; several thousand acres included.

**Wis., Madison**—Bids on town drain were readvertised; first bids were not opened.

**Wis., Madison**—Sealed proposals for digging the Smith-back town drain will be received by P. H. Hinzle, court house, Madison, engineer, until Jan. 9; Fay Hammersley, chairman, town board.

### BIDS WANTED.

**Ill., Quincy**—Sealed bids will be received by the supervisors of the Fabius River drainage district at the office of the secretary, J. H. Best, Illinois State Bank, Quincy, Ill., until 9:30 a. m., Jan. 20, 1915, for the construction of the levees and ditches and diversion channels for the Fabius River drainage district; there are about 2,000,000 cubic yards of ditch and channel excavation and levee fill; the work will be divided into seven principal sections and four small sections, each suitable for a contract unit; for further information inquire of Harman Engineering Co., 144 Fredonia av., Peoria, Ill.; Jacob A. Harman, chief engineer.

**Minn., Roseau**—Bids received until 2 p. m., Jan. 18, for digging and construction, county ditch 20, one job or sections; check 10 per cent; estimated excavation, 54,042 yards, cost \$7,665; 28 culverts, estimated cost \$536, clearing right-of-way, estimated, \$1,021; leveling, 6.13 miles; installing culverts, \$280; total cost main ditch and one lateral, \$11,037; S. G. Bertilrud, county auditor.

**Minn., Stillwater**—Bids received until 11 a. m., Jan. 29, at county auditor's office for digging and constructing ditch 4, Anoka and Washington counties; main and branches; 31-314 yards; estimated cost \$14,747; check for 10 per cent; N. A. Nelson, auditor, Washington county.

**Neb., Lexington**—Bids rejected on digging drainage ditch in sections 1 and 2, township 8, Gosper county; clerk instructed to advertise for new bids.

### CONTRACTS AWARDED.

**Minn., Bemidji**—Contract awarded to Klauer Manufacturing Co., Dubuque, Iowa, for metal culverts, judicial ditch 21, at \$5,092; Wheeling Corrugated Culvert Co., Minneapolis, \$5,076; Russell Grader Co., \$6,002; Lyle Corrugated Culvert Co., Minneapolis, \$4,580; Duluth Corrugating & Roofing Co., \$5,020; North Dakota Culvert Co., Fargo, \$7,532; Berger Manufacturing Co., \$5,256; Illinois Steel Bridge Co., \$5,800; J. L. George, county auditor.

**Minn., Granite Falls**—Contract awarded for ditch 8, to Northern Minnesota Drainage Co., Little Fork, Minn., at \$10,150; contract for lateral 1, to Anton Madsen and Carl Christiansen of Litchfield, Minn., at \$1,800.

**Mont., Great Falls**—Contract probably will go to O'Connor & Helcan, Great Falls, for canals and laterals of Greenfield bench unit, Sun River irrigation project, low bidders, at \$43,691; contract to be awarded at Washington; work to be completed next summer.

## ☞ WATER WORKS ☞

**Alta., Empress**—Proposition is being discussed for installation of a water works system, probably will not be voted on for about 6 months; John Galt Engineering Co., Ltd., Judge Travis building, Calgary, Alta.

**B. C., Kamloops**—Bonds of \$35,000 have been voted for extension of water works system.

**Iowa, Boone**—City clerk has been instructed to advertise for bids for a reserve pump; bids to be taken until Jan. 5, 7:30 p. m.

**Iowa, Buffalo Center**—Two petitions are being circulated for a water works and electric light system.

**Iowa, Elliott**—City council sold \$8,000 worth of bonds to an Indiana firm for water works system.

**Iowa, Iowa Falls**—Contract awarded to Moore & Moore for laying of 3,500 feet 6-inch water mains, 4,900 feet 4-inch water mains, at \$23,828.

**Iowa, Linn Grove**—Citizens advocate installation of a water works system.

**Iowa, Pella**—City will vote Jan. 12 on \$10,000 to extend water system.

**Kans., Newton**—Mayor A. J. Duff, head of water department, has been authorized by city commissioner to make preliminary plans for sinking of a new well.

**Mich., Ann Arbor**—City is planning to construct one mile 15-in. and 20-in. water mains, also install 3,000,000-gallon centrifugal pump and filtration plant; Geo. S. Vanawarker, manager.

**Mont., Billings**—The \$450,000 waterworks bonds were sold to Weil-Roth & Co., of Cincinnati.

**Mont., Harlowtown**—A water works system will be installed here, cost \$50,000; address city council.

**Neb., Bayard**—Town is agitating the question of a water works and electric light system this year.

**Neb., Eagle**—Town has recently voted \$8,500 for water works system, to be installed soon.

**Okla., Guthrie**—A special election will be held Jan. 14, to vote on issuance of \$50,000 bonds for extension of water works system; Mayor Nissley.

**Ore., Turner**—Contract awarded to the Dennis Construction Co., Lewis building, Portland, Ore., for waterworks system, at about \$12,000.

**S. D., Deadwood**—City plans to start construction of water works system early as possible in the spring.

**S. D., Winner**—The Seattle Construction Co. will commence work of laying water pipes for the Shoemaker Springs to Winner's large reservoir soon.

**Wash., Tacoma**—Secretary Metropolitan park board has requested city to join with park district in laying approximately 3,000 feet of 12-in. main connecting city main on Front st. with Point Defiance park, cost, \$3,352.

**Wis., Manitowoc**—The common council of Manitowoc, Wis., has informally rejected all bids received about 60 days ago for furnishing a 500 horsepower steam plant for the municipal water and light plant, new bids will not be called for until a decision has been reached on the offer of the Busch-Sulzer-Diesel Engine Co., St. Louis, Mo., to install an oil engine and generating unit; Henry Stolze, mayor.

**Wyo., Moorecroft**—City has sold its new water works bonds to John Sanburg & Co., of Denver, Colo.

### BIDS WANTED.

**Kans., McCune**—Bids reported desired until Jan. 15, for \$22,000 water bonds for a water works system, Henrici, Kent & Lowery, engineers, Reserve Bank building, Kansas City, Mo.

**Man., Winnipeg**—Bids received until Jan. 19, for furnishing gravel pit excavation, screenings, elevation and crushing machinery also locomotive and -cars, for pit and for railway service, for Greater Winnipeg water service; S. H. Reynolds, chairman, commissioners, Boyd building.

### CONTRACTS AWARDED.

**B. C., New Westminster**—Contract awarded to the Vulcan Iron Works for 310 feet of riveted steel pipe for new reservoir being constructed, at \$1,025, for delivery in two weeks, or \$375 for delivery in six weeks.

**Minn., Wabasha**—Contract awarded to Moser & Passe, for tapping water mains and laying pipe, at \$15.95 per tap.

**Mont., Billings**—Contract awarded to Weil, Roth & Co., of Cincinnati, O., for \$450,000, 5 per cent water bonds at \$4,550; other bids were: E. H. Rollins & Son, Chicago, \$1,425; Harris Trust & Savings Co. Chicago \$4,525; Wells & Dickey Co., Minneapolis, \$2,975; Merchants' National Bank, Billings, \$2,425.

**Wash., Seattle**—Contract awarded to D. H. Traphagen Arctic club, for water mains on 38th av. S. W., at \$26,864.





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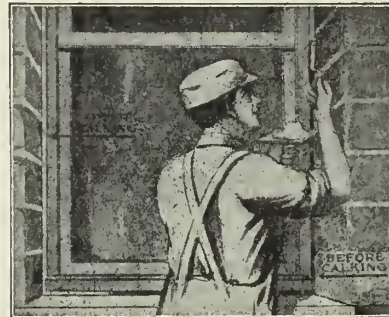
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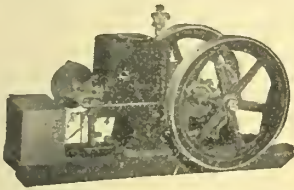
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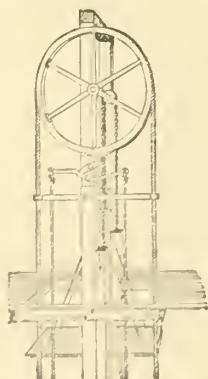
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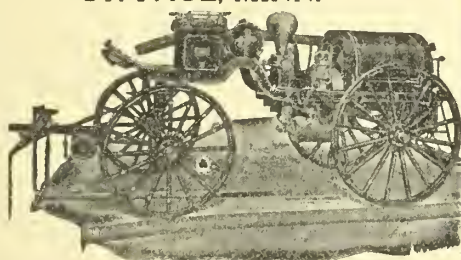
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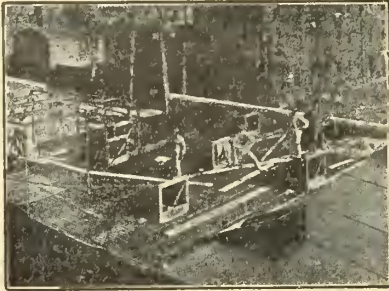
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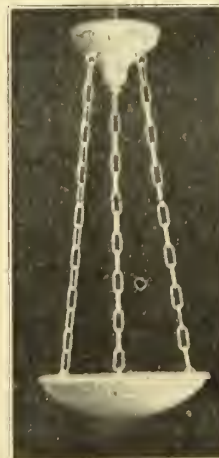
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., January 16, 1915.

Number 7

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**FURRING.**  
Corrugated Bar Co., St. Paul, Minn.

**GAS AND ELECTRICAL FIXTURES.**  
Jerdee & Hendrickson, Minneapolis, Minn.

Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

**GLASS.**  
American Luxfer Prism Co., Chicago, Ill.

Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

**GRAVITY CARRIER.**  
Minnesota Manufacturers' Association, North St. Paul, Minn.

**HARDWARE TRIMMINGS.**  
Decker Hardware Co., St. Paul, Minn.

Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.

Waterous Engine Co., St. Paul, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can easily be found by referring to the Alphabetical List of Advertisers on page three.

W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

## INSURANCE.

Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Des Moines Structural Steel Works.....Des Moines, Iowa  
Haakinson & Beatty Co.....St. Paul, Minn.  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
Oberg & Stamer.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenreiter Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

Haakinson & Beatty Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....St. Paul Foundry Co.....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co.....Chicago, Ill.

## LIME.

General Western Material Co.....Waterloo, Ia.  
Rowler & Fay.....Mpls. and Mankato, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.

Speakes Lime & Cement Co.....Superior, Wis.  
Shevlin-Carpenter Lumber Co.....Minneapolis  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

## MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....St. Paul, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....St. Paul, Minn.  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co.....Minneapolis  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

General Western Material Co.....Waterloo, Ia.  
Haakinson & Beatty Co.....St. Paul, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co.....Minneapolis  
St. Paul Lime & Cement Co.....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation.....Iowa City, Iowa

## STANDARD SALT & CEMENT CO.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis  
Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

Haakinson & Beatty Co.....St. Paul, Minn.

Midway Ornamental Iron Works.....St. Paul, Minn.

Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis  
Rickelton Mineral Paint Works.....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co.....New York, N. Y.

## PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.

## PLASTER—WALL.

General Western Material Co.....Waterloo, Ia.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Plymouth Gypsum Co.....Fort Dodge, Ia.

Shakopee Cement Lime Co.....St. Paul, Minn.

Shevlin-Carpenter Lumber Co.....Minneapolis

St. Paul Lime & Cement Co.....St. Paul, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## PLASTERING—ORNAMENTAL.

Monarch Co.....St. Paul, Minn.

Roy Curtis.....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co.....Minneapolis, Minn.

## PLASTIC ORNAMENTS.

Monarch Co.....St. Paul, Minn.

K. F. Lott & Co.....Mpls. and St. Paul, Minn.

## PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co.....Chicago, Ill.

Crown Iron Works Co.....Minneapolis

PLUMBING AND HEATING JOBBERS.

## POWER PLANTS.

National Mfg. & Supply Co.....Mpls., Minn.

## REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works.....Minneapolis, Minn.

Griffin & Boehme.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co.....Duluth, Minn.

Minnesota Roofing & Cornice Works.....St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.

Scribner-Libby Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.

Selden Roofing & Manufacturing Co.....Minneapolis, Minn.

## ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Duluth Corrugating & Roofing Co.....Duluth, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

La Crosse Steel Roofing & Corrugating Co.....W. S. Nott Company.....Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.

N. W. Roofing, Cornice & Stamping Works.....Minneapolis, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Barrett Mfg. Co.....New York, N. Y.

Biesanz Stone Co.....Winona, Minn.

Corrugated Bar Co.....St. Paul, Minn.

General Western Material Co.....Waterloo, Ia.

John Leslie Paper Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.

Shevlin-Carpenter Lumber Co.....Minneapolis

Standard Salt & Cement Co.....Duluth, Minn.

## ROOFING AND SIDING—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis

## SAND AND GRAVEL.

Mason City Sand & Gravel Co.....Mason City, Ia.

## SHINGLES—RUBBER.

W. S. Nott Company.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co.....Winona, Minn.

General Western Material Co.....Waterloo, Ia.

Standard Salt & Cement Co.....Duluth, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co.....Duluth, Minn.

Carr-Cullen Co.....Minneapolis, Minn.

Osgood & Blodgett Mfg. Co.....St. Paul, Minn.

Scott-Graff Lumber Co.....Duluth, Minn.

Shevlin-Carpenter Lbr. Co.....Minneapolis

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co.....St. Paul, Minn.

Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.

Lehigh Sewer Pipe & Tile Co.....Fort Dodge, Iowa

Northwestern Lime Co.....St. Paul, Minn.

Plymouth Clay Products Co.....Red Wing, Minn.

Red Wing Sewer Pipe Co.....Red Wing, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## SHAPE ADJUSTERS.

Wm. J. Work.....St. Paul, Minn.

## SHEETS—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Haakinson & Beatty Co.....St. Paul, Minn.

Inland Steel Co.....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.

Avery Steel & Iron Co.....Minneapolis

Crown Iron Works Co.....Minneapolis

Berger Mfg. Co.....Minneapolis, Minn.

General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....St. Paul, Minn.

K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Haakinson & Beatty Co.....St. Paul, Minn.

Peerless Marble & Tile Co.....Minneapolis

Twin City Tile & Marble Co.....Minneapolis

## SKYLIGHTS.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Haakinson & Beatty Co.....St. Paul, Minn.

Krieger-Jamar Co.....Duluth, Minn.

St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co.....Minneapolis

W. S. Nott Company.....Minneapolis, Minn.

## STEEL—BARS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis

Haakinson & Beatty Co.....St. Paul, Minn.

Inland Steel Co.....St. Paul, Minn.

Twin City Tile & Marble Co.....Mpls., Minn.

## STONE.

Babcock & Wilcox.....Kasota, Minn.

Biesanz Stone Co.....Winona, Minn.

Edw. Edinger Co.....Cedar Rapids, Ia.

Kettle River Co.....Minneapolis, Minn.

Duluth Cut Stone Co.....Duluth, Minn.

Mantorville Stone Co.....Mantorville, Minn.

New Ulm Stone Co.....New Ulm, Minn.

Pioneer Granite Co.....St. Cloud, Minn.

Sauk Rapids Granite Co.....Sauk Rapids, Minn.

Wm. Penn Stone Co.....Minneapolis, Minn.

The Widell Co.....Mankato, Minn.

## STRUCTURAL SECTIONS AND SHEETS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Inland Steel Co.....St. Paul, Minn.

Haakinson & Beatty Co.....St. Paul, Minn.

## TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## TANKS—WOOD.

Twin City Silo & Specialty Co.....Minneapolis

## TERRA COTTA.

Belt Line Brick Co.....Mpls. and St. Paul

General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....St. Paul, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.

Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.

K. F. Lott & Co.....Minneapolis and St. Paul, Minn.

## THEATER EQUIPMENT.

The Monarch Co.....St. Paul, Minn.

## TILE—CLAY—PARTITION AND FLOOR.

Hydraulic Press Brick Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.

North Star Varnish Co.....Minneapolis, Minn.

Twin City Varnish Co.....St. Paul, Minn.

## VALVES.

Crane Co.....Minneapolis, Minn.

Crane & Ordway.....St. Paul, Minn.

Mechanical Specialty Co.....St. Paul, Minn.

## VENTILATING SYSTEMS.

Hackney Ventilating Co.....Minneapolis, Minn.

## WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

## WATERPROOFING.

General Western Material Co.....Waterloo, Ia.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

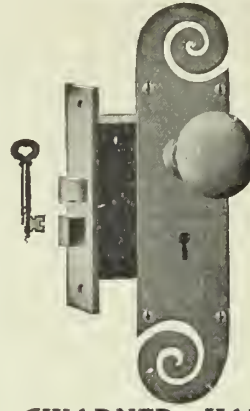


# We are Moving

## W. K. MORISON & CO.

Builders Hardware, Tools,  
Cutlery and Sporting Goods

AFTER FEBRUARY 1st, 1915  
15 So. 7th St., Minneapolis, Minn.



## WARREN DESIGN COLONIAL

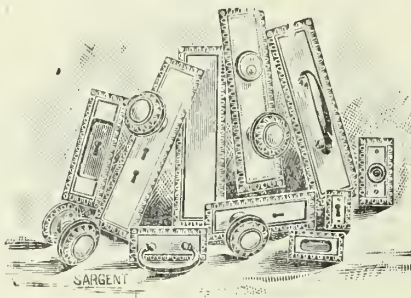
### "CORBIN"

hardware provides the  
distinction and worth  
that lies in artistic de-  
signs and honest work-  
manship.

Ask for Catalogs

**WARNER HARDWARE CO.**

13 So. 6th St.  
Minneapolis.



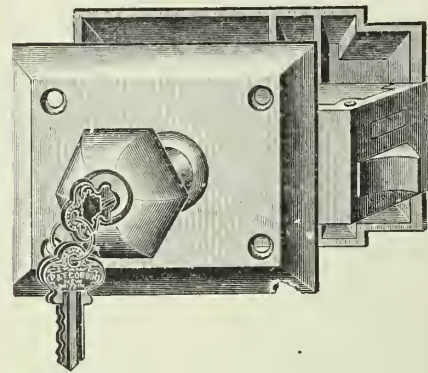
## SARGENT'S Artistic HARDWARE

Estimates fur-  
nished on all  
hardware and  
Contractors'  
Supplies.

## GARDNER HARDWARE CO.

304-306 HENNEPIN AVENUE

MINNEAPOLIS, MINN



## CORBIN LOCKS

We make a  
Specialty of fine  
Builders' Hard-  
ware and Con-  
tractors' Supplies  
Estimates fur-  
nished promptly.

**ADAM DECKER HARDWARE CO.** 347-49 JACKSON ST.  
ST. PAUL, - MINN.

# IDEAL FLOORING

Maple --- Birch --- Beech



**I. STEPHENSON CO, Trustees**  
WELLS. - - - MICHIGAN

## BUILDING MATERIALS

SASH

DOORS

INTERIOR

FINISH

MANTELS

GRILLES

All Kinds

of Glass

LET US FIGURE; ALL ESTIMATES FREE

**CARR-CULLEN CO., Minneapolis**

10 Ave. N. E. and Marshall St. N. E. Tel. N. W. East 345. T. S. No. 345.

## PLYMOUTH CLAY PRODUCTS COMPANY

FORT DODGE, IOWA

MANUFACTURERS OF

*Large Drain Tile*

*Sewer Pipe*

*Well Pipe*

*Flue Linings*

*Wall Coping*



Face Brick      Enameled Brick  
Architectural Terra Cotta  
Metal Lath  
Cabot's Creosote  
Shingle Stains and  
Sheathing Quilt

**JOHNSON - JACKSON & CORNING CO.**

216-17 Lumber Exchange  
MINNEAPOLIS, MINN.

633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, JANUARY 16, 1915

NUMBER 7

## EDITORIAL

O. L. COLBURN, Editor

### ELIMINATION IN BUILDING.

In a sincere contribution to the newspaper reading matter of the day an architect says that elimination is the keynote in keeping down the cost of building. The statement is true but it should be accompanied by the warning that elimination easily can be carried too far, especially for the interests of the owner and welfare of the tenant.

There are in fact several kinds of elimination. They vary according to the motive of the man or men who make them. Elimination of ornaments never weakens a building. Elimination by careful architects and contractors does not tend to eliminate tenants or freeze a family the second, if not the first, winter in a new home.

We have in mind a peculiar case of successful elimination. A relative of an architect bought a good looking modern house without consulting him. He paid a good price but he got plenty of accommodation in the matter of time and payments. The hardwood floors and cabinet work gave it a fine interior appearance while new. The whole dwelling, in fact, suggested the prettiness, the grace, comfort and charm of a thoroughly desirable modern home. Nothing had been eliminated which would interfere with a sale while the paint was bright. All went well for a while and then a spell of winter weather caused trouble. The coal bills increased but the heat did not. After a struggle the owner summoned his relative, the architect, and they made an investigation. The first discovery was that the floors were composed of the cheapest lumber and that the boards of the rough floor were several inches apart. About half the lumber which should have been used had been eliminated. No protection had been laid down between that and the finish floor. Proceeding through the house it was discovered that it was, in its way, a masterpiece of leaving out things.

Elimination was the keynote in keeping down the cost—elimination of material and labor.

It is this sort of elimination which makes the services of a good architect and builder cheap at almost any price.

It is a nice job, this eliminating of things from the plans and specifications of a building to be depended on as a good one. It is a means of economy but it is also a source of continual loss, dissatisfaction and danger. There is nothing that can baffle an architect or builder more successfully than a building whose constitution has been thoroughly undermined and permanently weakened by having its strength sapped for mercenary reasons. Such a building is sick in so many places that all remedies fail. Water leaks in, heat escapes, floors sag, and the owner discovers his bad mistake of judging by appearances.

Reasonable elimination may be practiced, as the architect referred to at the beginning, says; and he lists such details as plate racks, expensive hardware, high ceilings and too many closets.

### THE CHICAGO PLASTERING ORDINANCE.

We are able to supply the following information about the Chicago plastering ordinance, which we have received from that city:

The Chicago ordinance, after Dec 31, 1914, requires three coats of plastering on all work and in cases where two-coat work is specified and the ordinance requires three coats, the owner is required to pay the extra price for the third coat. It is argued for the law that since three-coat plastering is much better in a building than two-coat work and eliminates all possibilities of stains from lath, etc., generating through to the surface, the owner, therefore, benefits through having a better grade of plastering, although he has to pay for the extra third coat, and the other beneficiaries on account of the third coat having to be applied are the plastering unions for the reason that it requires more work to put on the third coat.

Our information shows that the Chicago unions employ two inspectors, and that the city employs about six plastering inspectors who are not connected with the unions.



VIEW OF GLACIER PARK HOTEL SHOWING GATEWAY DESIGN.



# State Road Work in Minnesota

A Report by John H. Mullen, Deputy State Engineer, at Northwestern Road Congress, Milwaukee, Wis.

For Minnesota I take pleasure in stating that substantial progress has been made in road construction during the year 1914, although weather conditions were not generally favorable.

We have been operating under a new law, which greatly increased the volume of work in the state and also enlarged the powers and duties of the State Highway commission. All road and bridge works in the state excepting in villages and cities is now under the supervision of the State Highway commission and to care for this work an annual appropriation of \$150,000 is made for maintenance of the department.

A one mill state road tax is levied on all property in the state, which with other minor sources of revenue nets the sum of \$1,400,999 for the state road and bridge fund for the year 1914. The law requires that 20 per cent of the state fund be first set apart to be used only for maintenance of state roads and the balance is used for construction. In addition to the state fund, counties are authorized to levy a tax of 3 mills for a county road and bridge fund.

The state aid maintenance fund for this year amounts to \$280,000 and the total mileage of state roads is 11,540 miles, which allows an average of \$24.26 per mile for state aid on maintenance during the year. This is met by a due proportion of county funds.

## \$40 A MILE FOR UPKEEP.

The county's share averages about 32 per cent, which means that the average cost for maintenance of state roads will be approximately \$40 per mile for the first year. The maintenance work which includes dragging, reshaping road bed, general repairs, etc., has proven very satisfactory, and has resulted in a much better general condition of roads throughout the state.

Construction under the direction of the highway commission involves approximately \$1,500,000 work of work under bond issues by the counties, one-half of which will be paid

by the state in ten yearly installments, and \$2,000,000 of expenditure under straight tax levy by the state and counties on which the state will pay 60 per cent of the cost out of the one mill state road tax. The bond issue work will result in the construction of approximately 204 miles earth road; 157 miles sand clay and partial gravel road; 200 miles gravel road; and 19 miles of concrete road, with the necessary bridges and culverts on each. The culverts average about three per mile and bridges one per ten miles.

Under the straight tax levy, the following approximate amounts of work will be done on state roads during the construction season of 1914: Grading 800 miles, gravelling 240 miles, macadam 8 miles and concrete 2 miles. These figures include culverts, but in some cases it is necessary to replace culverts on roads which are not improved at the same time, and the approximate amount of this work will be 30,000 lineal feet corrugated metal culverts from 12 inches to 48 inches diameter; 13,000 lineal feet sectional concrete culverts; 2700 cubic yards plain concrete culverts; and 2500 cubic yards reinforced concrete culverts.

In addition to the above described work, general supervision is given by engineers of the department to county and township road work which involves an expenditure of about one and a half million dollars.

## NEARLY 300 STEEL BRIDGES

Nearly all bridge work done in the state is planned and supervised by the bridge department of the highway commission and for the year 1914 will approximate 285 steel bridges and 56 reinforced concrete bridges, with steel length of 14,117 feet and costing \$702,200.

The state highway commission of Minnesota is composed of three members, one appointed each year by the governor, who serve without pay and meet at the state capitol once each month to audit the accounts, establish roads, etc., and give general supervision to administration of road affairs by the department. They appoint a state engineer who is secretary of the commission, to whom is given direct charge of the

(Continued on page 41.)

# Requested by the Washington State Board of Control

## FOR THE FISCAL PERIOD BEGINNING APRIL 1, 1915.

### WESTERN HOSPITAL FOR INSANE.

Laundry building, (material only).....	\$7,000
Steel roof and equipment for boiler room and bunkers	10,000
Repairs and improvements.....	15,000

### EASTERN HOSPITAL FOR INSANE.

General repairs and improvements.....	\$11,000
Enlarging water system.....	6,000
One 300 horse power boiler with Jones stoker.....	8,500

### NORTHERN HOSPITAL FOR INSANE.

Two ward buildings.....	\$128,000
Auditorium .....	30,000
Commissary building .....	10,000
Farm buildings .....	30,000
Laundry building and equipment.....	15,000
Refrigerator plant .....	8,000
Construction of headgates and completion of reservoir and sewer system.....	12,000
Library .....	500
Construction of two miles of road on state grounds..	3,000
Repairs and improvements.....	500

### INSTITUTION FOR FEEBLE-MINDED.

Administration building, kitchen and dining room...	\$85,000
Custodial building for girls.....	85,000
Two cottages, to accommodate 140.....	70,000
Heating system .....	30,000
Laundry and equipment .....	12,000
Dairy barn, etc.....	15,000
Fencing .....	1,000
Water and sewerage connections.....	700
Electric extensions and fixtures.....	2,000

## STATE SOLDIERS' HOME AND COLONY.

Repairs and equipment for hospital.....	\$2,500
Repairs and improvements, clearing, fencing, etc....	10,000
Library .....	200

## WASHINGTON VETERANS' HOME.

Garden, grounds and new sidewalks.....	\$4,000
Improvements in cemetery, bringing water to same..	1,500
New concrete reservoir.....	5,000
Hospital for emergency cases.....	2,000
New equipment for main kitchen.....	1,000
Fire extinguishers .....	350
Repairs and improvements .....	7,000

## STATE SCHOOL FOR THE BLIND.

Manual training supplies.....	\$2,000
Library .....	200
General repairs .....	3,500
School buildings and furnishings.....	40,000

## STATE SCHOOL FOR BLIND

Manual training supplies.....	\$2,000
Summer school for adults.....	800
Repairs and improvements.....	1,000
Library .....	1,000
School and administration building and furnishings..	60,000

## STATE PENITENTIARY.

Repairs and improvements .....	\$10,000
Library .....	500
Women's building and wall.....	15,000
Increasing height of stockade wall.....	5,000
Operation of jute mill and purchase of jute.....	275,000

## STATE TRAINING SCHOOL.

Roothouse and storeroom.....	\$3,600
Repairs and improvements and repairing and re-	

(Continued on page 41.)



# PERSONAL AND GENERAL NEWS.

Doings of the Northwest this Week Boiled Down for Busy Readers

## ST. PAUL BUILDERS' EXCHANGE BANQUET.

The thirteenth annual dinner of the Builders' Exchange of St. Paul will be given at the Ryan hotel, on Tuesday, January 26, 1915, at 7:00 o'clock p. m. It promises to be most enjoyable. The committee and Secretary A. V. Williams, have prepared an excellent program. Former dinners of the exchange have been attended by practically all members of the exchange and many guests, all glad to get the invitation. The committee in charge of the dinner is as follows: J. C. Corning, K. P. Grant, H. T. Cameron, R. D. Turpen, Wm. M. Burns, W. J. Gross, W. G. Seeger, Chas. E. Villaume, Wm. Rhodes.

The Barrett Manufacturing Co., New York, N. Y., at the Good Roads Show in Chicago, exhibited samples of Tarvia "A," "B" and "X;" a model of Tarvia filled road; transparencies showing the construction of a Tarvia road; an automobile truck for applying Tarvia, and a pressure tank wagon for applying Tarvia. The company was represented by P. P. Sharples, manager, general Tarvia department; F. S. Hutchinson, manager, New York Tarvia department; B. M. Smith, manager, Chicago Tarvia department; R. W. Pond, manager, Boston Tarvia department; Fred Jones, manager, Cincinnati Tarvia department; D. T. Perry and Edward C. Sargent, managers, Cleveland Tarvia department; A. B. Cowdery, general Tarvia department; C. M. Cottam, St. Louis sales manager; W. G. Bickell, Fairfield (Ala.) sales manager; W. J. Walker, Kansas City manager; S. Roe Robinson, Minneapolis manager; S. M. Cowan, New York salesman; Geo. B. Chadwick, district manager, Paterson Manufacturing Co., Toronto, Ont., and B. E. Smith, paving department, Paterson Manufacturing Co., Toronto, Ont.

The purchase of a considerable amount of road machinery for work in 1915 is proposed by the highway authorities of Polk county, Iowa. It is reported that the purchases will include two large traction engines and at least four graders, in addition to dump wagons, horses, cooking tents and other equipment. The purchases will be made by the county authorities during the winter so that work may be commenced as soon as possible in the spring. According to the present plans, two traction outfits will be employed, one in the southern or western portion of the county and the other on the opposite side of the county.—Good Roads.

Wisconsin will spend approximately \$3,750,000 for state highway construction in 1915. Under the law the state and county must meet the towns with an equal proportion. Applications for state aid registered with the commission called for the sum of about \$1,350,000 in state aid. Before the distribution was made, however, the supreme court decided that the so-called "force clause" of the state aid law was unconstitutional. The valid application for aid amounted to \$1,206,221. As the state highway appropriation for next year amounts to \$1,250,000 (\$1,000,000 provided by direct tax; \$200,000 from the general fund of the state and \$50,000 from automobile licenses), every unit of government in the state that validly petitioned for aid last spring will receive an amount equal to the amount it raised from the state fund. This is the first time that state aid has been paid in full except in 1913 when the legislature made an extra appropriation. Since the towns last spring voted to raise an aggregate of \$1,206,221, the county must raise an equal amount and the state an equal share for construction work next year. During the season just closing about 1,500 miles of road and 300 bridges will have been built.

The Plymouth Gypsum Co., Fort Dodge, Iowa, has acquired land upon the east side of the river adjoining the M. & St. L. railway upon which will be put the buildings and a side track connection with the main line of the M. & St. L. These contemplated improvements will give to the Plymouth Gypsum Co. an annual increased tonnage of about 50,000 tons. This plant will be a separate unit from the main gypsum mill. These new improvements are exclusively for the raw product and will be handled direct from the mine and to be sold to manufacturing establishments using gypsum in their manufacture. Mr. L. E. Armstrong, president of the Plymouth Co. is very optimistic in his views as to the business outlook for 1915, and is going to be prepared to get his share of the increased business, especially in the middle west.

M. E. Harrison is back with his old company, the Berger Manufacturing Co. of Canton, Ohio. Mr. Harrison's smiling face may be seen nowadays at the Minneapolis office of the Berger Co.

F. C. Johnson of Vitrolite Construction Co., Minneapolis, has returned from a business trip during which he closed a \$26,000 contract for installation in county tubercular hospital at Milwaukee, Wis.

Ex-Gov. Eberhart, who is a member of the Widell Construction Co. of Mankato, has not yet selected his offices in St. Paul, where he will represent his company. He expects to decide the matter soon.

D. H. Budd, plumber, of Bozeman, Mont., has disposed of a half interest in his plumbing business to A. F. McCune of Belgrade, and the members of the firm are taking steps to incorporate for \$25,000 the D. H. Budd Plumbing Co., of Bozeman, which will be the name under which the business will be conducted in the future.

At a meeting of the executive board of the Wisconsin Master House Painters and Decorators' Association at Oconomowoc dates for the annual convention were set for July 27, 28 and 29.

At the regular meeting of the Brown County (Wis.) Contractors' Association at Green Bay, all officers were reelected. They are Geo. F. Reeke, president; J. W. Meyer, vice president; August Thomas, secretary; Zeno Paque, treasurer; Al. Delaportes, trustee, Felix Baeb and Carl Hansen were re-appointed inner guard and marshal respectively. At the last meeting the association decided to employ a stenographer whose duty it will be to have charge of all plans and specifications sent in by local and outside architects to be figured on. The plans will be available at all times between the hours of 8 and 12 a. m. and 1 and 6 p. m.

The annual New Year's edition of the Evansville, (Ind.) Courier comes to our desk, brimful of the story of Evansville's progress, told in words, figures and pictures. It contains many pages of illustrations showing Evansville's new banks, hotels, retail and wholesale blocks, manufactories, churches, clubs, apartment houses and residences. Evansville is rapidly achieving her destiny as the metropolis of the lower Ohio Valley.

Capt. C. P. Bullis, U. S. A., gave his delayed talk to the Jovians this week at the luncheon of the Minneapolis League, Tuesday. H. E. Brillhart, secretary, called attention to the "Tin wedding" of The Western Association of Electrical at the Radisson Jan. 26-28, and to the dance and card party Jan. 26 and the smoker Jan. 28.

A new building firm was added to the list of Faribault, Minn., contractors when it was announced recently that F. N. Waite and C. W. Waite, cement contractors of Cannon City, had purchased the old stone building formerly known as the "Daisy Mill" at 14th st. and 2d av., and would establish themselves there soon after the first of the year.

Unusual destruction: (Wisconsin item) The home and contents of Wm. Miles at Spokeville were completely destroyed by fire.

The Builders' Bowling League of the Minneapolis Builders' Exchange resumed last week and the first scores of the new year were: Hardware—won 24 games, lost 9, percentage, 727; Lumber—won 24, lost 9, percentage 727; Glass—33 played, 24 won, 9 lost, 727; Plumbers—33 played, 22 won, 11 lost, 666; Roofers—33, 21, 12, 606; Millwork—33, 16, 17, 485; Boiler—33, 15, 18, 455; Lime-Cement—33, 14, 19, 423; Brick—33, 11, 22, 333; Bouts—33, 10, 23, 303; General Contractor—33, 9, 24, 273; Building Specialties—33, 8, 25, 293. This record shows little change in the standing of the teams.

A bill to protect owners of buildings from contractors who leave them to settle labor bills has been drafted by Representative Frank E. Nimocks of Minneapolis, who said that he would take it up with representatives of the building trades to see whether they have any objection to it. The bill makes it a felony for a contractor to leave labor bills unpaid after having received full pay for a job. "I know of several cases," said Mr. Nimocks, "where men have built homes paid the contractor in full for them, and then have had liens filed by workmen who had been unable to collect their wages for work on the buildings."

Next semi-annual convention of the Wisconsin State Conference of Painters will be at Madison, July 9, 1915. Solomon Riest of Madison was elected general president of the state conference at the convention held recently. Burt Smith, the Racine delegate, was chosen first vice president. Wm. Fuhs of Oshkosh, president the last half year, was elected second vice president. John Schwegert of Milwaukee was retained



as general secretary and treasurer. The trustees elected were: C. C. King of La Crosse, Charles Rottmann of Sheboygan and Wm. Fuhs of Oshkosh.

Milwaukee builders and traders' annual election Jan. 12, was closely contested. Builders' club: President, Wm. Gregory; first vice president, Tom E. Dever; second vice president, August Bartelt; secretary, Arthur J. Maag; treasurer, Anton Hennecke; directors for three years: A. H. Wegner and Frank Buestrin. Builders' and Traders' Exchange: President, Burton L. Hibbard; first vice president, Arthur J. Maag; second vice president, Louis Hoffmann; secretary, Frank Spetz; treasurer, Anton Hennecke; directors for three years: Samuel J. Brockman, Carl Luenzmann, Wm. F. Rediske and John Debbink. The annual meeting of the Builders' club will be held on the second Wednesday in February.

Joseph Tyrell of Madison was elected president of the Wisconsin Association of Master Carpenters. Madison was chosen as the next meeting place of the association. Other officers named were: P. J. Van Pool, Janesville, first vice president; Mathew Peters, Milwaukee, second vice president; H. C. Zickert, Watertown, treasurer; O. H. Ulbricht, Milwaukee, financial and recording secretary. The convention went on record as favoring a license for carpenters to regulate reliability and efficiency.

J. E. Nelson & Son have moved their office from 244 2d av. S. to the Minneapolis Builders' Exchange, 17 6th st. S.

#### BOWLING BY ST. PAUL BUILDERS.

**Score, Jan. 11.**—Plumbers and Steamfitters, 868, 824, 870, total, 2,562, won 1, lost 2, vs. Contractors, 930, 810, 927, total, 2,667, won 2, lost 1; Lumber, 842, 898, 891, total 2,631, won 1, lost 2, vs. Steel and Iron, 860, 980, 867, total 2,707, won 2, lost 1; Cement-Stone-Brick, 884, 914, 958, total 2,756, won 3, lost 0, vs. Sheet Metal, 838, 860, 876, total 2,574, won 0, lost 3; Bond 1,000, 908, 816, total 2,724, won 2, lost 1, vs. Hardware, 838, 911, 802, total 2,551, won 1, lost 2.

**Team Standings.**—Cement-Stone-Brick, won 37, lost 14, percentage .724; Plumbers and Steamfitters, won 36, lost 15, percentage .705; Bond, won 29, lost 22, percentage .569; Sheet Metal, won 24, lost 27, percentage .471; Contractors, won 23, lost 28, percentage .449; Steel and Iron, won 21, lost 30, percentage .414; Lumber, won 20, lost 31, percentage .401; Hardware, won 14, lost 37, percentage .276. Team high score, three games, Plumbers and Steamfitters, 2,601; team high score, one game, Contractors, 958; individual high score, three games, J. Thomson, 643; individual high score, one game, J. Shiely, 258.

**Next Game, Jan. 18.**—O'Briens: Bond vs. Plumbers and Steamfitters, Lumber vs. Hardware; Pfister's: Steel and Iron vs. Cement-Stone-Brick; Contractors vs. Sheet Metal.

#### ARCHITECTS AND ENGINEERS.

##### MINNEAPOLIS ARCHITECTURAL CLUB.

The annual dinner of the club was held at McCormick's cafe in an informal manner after which the members adjourned to the club rooms where the election of officers for the new year was held. The following were elected: President, Paul Haugen; vice president, F. B. Martin; treasurer, Paul Perkins; secretary, F. H. Hafey; directors for one year, C. D. Aldrich and J. H. Rustad, directors for two years, Wm. G. Dorr. The reports given by retiring officers showed that the club has done good work during the past year and has put itself upon a good financial footing. The outlook for the coming year is exceptionally bright. An open meeting of the Minneapolis Architectural club will be held at the club rooms, Meyers Arcade, Tuesday, Jan. 19, at 8:15 o'clock. The subject will be, "The Manufacture of Gypsum Products, from the Mining to the Finishing Touch." Mr. Wharton Clay, architectural engineer, will be the speaker and the lecture will be illustrated with moving pictures. A comedy entitled, "A Gentleman of Nerve" will be given. Smoker and a buffet lunch will follow. Friends of the club and any interested in the subject of the evening are cordially invited to be present.

Herman Kretz, architect of the Commerce building, St. Paul, and owner of the building, says the union station and approach could be completed in three years instead of five.

The most important engineering position in the operation of the refining plants of the Anaconda Copper Mining Co., Anaconda, Mont., has been given to Wallace N. Tanner, former Minneapolis man and a graduate of the university of Minnesota. Mr. Tanner has for several years been engineer in charge of one of the plants but on Jan. 1 the operation of the plants and the engineering departments of the Anaconda and Great Falls plants were consolidated. Mr. Tanner was made chief engineer in charge of both places. Mr. Tanner is the son of Mr. and Mrs. Wm. L. Tanner, 1424 5th av. S.

One of Governor Eberhart's latest appointments, in finish-

ing his five years as head of the state government, was that of Thomas G. Holyoke, a well known architect of St. Paul,



Thomas G. Holyoke.

to be a member of the state art commission. It showed that Governor Eberhart had discernment and it tended to increase the merited recognition of St. Paul architects. The commission includes: E. C. Gale, Minneapolis; Edwin H. Hewitt, architect, Minneapolis; A. D. Albert, Governor Hammond, President Vincent of the state university and others. Maurice I. Flagg, Minneapolis, is director, with offices in the Essex building, 10th and Nicollet. In an address, Mr. Flagg said of the work of this organization: The state art commission is the clearing house for the art activities of the state. In this respect we are concerned—not only with the producer, but with the consumer.

If we can stimulate appreciation, if we can encourage the people to experience beauty in their own immediate environment, if we can demonstrate that art has an economic value—that it is an asset—that it is a real vital factor in the life of the community, then we shall have contributed our share to the fuller realization and happiness of better living and better citizenship.

#### ANNUAL MEETING OF THE NORTHWESTERN CLAY ASSOCIATION.

The Northwestern Clay Association will hold its annual meeting at the West hotel next week. The program:

TUESDAY, JANUARY 19, 1915.

- 9:30 o'clock—Registration of members.
- 10:30 o'clock—Convention called to order.  
Reading of minutes.  
President's annual address. M. C. Madsen, president, Hutchinson, Minn.  
Reports of secretary-treasurer.  
Reports of committees.  
Unfinished business.  
New business.
- 12:00 o'clock—Adjournment.
- 1:30 o'clock—Unfinished business.
- 2:00 o'clock—Address: "Surprises of Fire Insurance Policies," John L. Thomas, Chicago, Ill.  
Address: "Cost Finding and Accounting," Wm. C. Koch, St. Paul, Minn.  
Opening of question box.  
Questions to be read but not answered until the following day. Prepare to do your share in helping your brother out of his difficulties.
- 5:30 o'clock—Adjournment.
- 8:00 o'clock—Evening:  
Informal banquet. Mr. E. H. Cobb, toastmaster.  
Music, Minneapolis Ladies' Quartette.  
Speaker of the evening, Mr. Geo. M. Gillette; subject: "Dangers of Lein Changes."  
JANUARY 20, 1915.
- 9:30 o'clock—Unfinished business.
- 9:45 o'clock—Stereopticon lecture: "The Applications of Electricity to Brick Plants," C. W. Drake, Pittsburgh, Pa.  
Stereopticon lecture: "Modern Excavating," G. A. Morrison, South Milwaukee, Wis.  
Address: "Clay Storage, Its Advantages and Method Employed Under Various Conditions," C. M. Avery, M. E., Aurora, Ill.
- 12:00 o'clock—Adjournment.
- 1:30 o'clock—Unfinished business.  
Election of officers.  
Address: "Economic Application of Pyrometer," J. W. Lazear, Chicago, Ill.  
Address: "Power Scraping," Jacob Voelker, Winona, Minn.  
Address: "Advertising for the Brick and Tile Maker," W. F. Chapman, Minneapolis.  
Question box. Discussion lead by A. C. Ochs, Geo. Rathjens, and Ed. Baer.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.

Phones: N. W. 3902. T.-S. Center 2194.

Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

Louis W. Delin, 4211 Wentworth av., 1½-story frame dñl.; address owner, 4214 Nicollet av.	2,000
Hicks & Co., 1218 6th st. SE., repairs and alterations to dñl., front porch; address owner.	1,000
C. H. Hen De Bourck, 4204 S. Bryant av., 1½-story plaster veneer dñl.; address owner, 4021 Lyndale av.	3,000
Rosenberg & Mazer, lessees, 100 Hennepin av., new store front and alterations; address owner.	2,500
Miss Frances Gardner, 3528 Snelling av., 1½-story frame dñl.; The Gardner Co., builders; address owner, 3016 Park av.	2,150
Frost Paint Co., 1209 Tyler st. NE., repairs to frame factory; Aug. Cederstrand, builder; address owner, 1209-11 Tyler.	1,200
Victor Fridlund, 3517 1st av. S., 1-story plaster veneer duplex; address owner, 4943 Dupont av. S.	4,000
Fred Mingo, 2904 N. Queen av., 1½-story frame dñl.; address owner.	1,600
Andrew Englund, 2528 31st av. S., 1½-story frame dñl.; address owner, 327 SE. 8th.	1,800
Mathias Stevens, 3825 38th av. S., 1-story plaster veneer dñl.; address owner, 3825 38th av. S.	2,200
Mrs. Ebba Gredin (Duluth), 51 and 53 Melbourne av. SE., 2-story brick veneer flats (4); F. R. Noble, builder; address owner.	8,000
Andrew J. Noble, 55 and 57 Melbourne av. SE., 2-story brick veneer flats (4); F. R. Noble, builder; address owner, 710 Washington av.	8,000
Yerxa-Andrews & Thurston, Inc., 3513 Hiawatha av., 20,000 gallon wooden water tank on brick flour mill; James Leck Co., builders; address owner, 311 S. 7th.	1,250
Andrew Jensen, 3325 45th av. S., 1-story frame dñl.; address owner, 3332 46th av. S.	1,800
Erik G. Day, 3924 17th av. S., 1-story frame dñl.; address owner, 2012 11th av. S.	1,500
Edw. M. Foster, 216-22 W. Lake st., 1-story plaster veneer stores (4); John Dahlin, builder; address owner, 616 Plymouth building.	2,600
Clyde E. Pratt, 3845 Grand av., 2-story frame flats (4); address owner, 3544 Colfax av. S.	5,500
Sylvester Tobias, 2020 3d st. NE., 1-story frame dñl.; address owner, 1412 NE. 6th.	1,400
John Thos. Jones, 4812 S. Washburn av., 1½-story frame dñl.; address owner, 2301 Oliver av. S.	2,500
B. F. Nelson Manufacturing Co., 414 Marshall st. NE., 1-story frame warehouse; H. N. Leighton Co., builders; address owner, 414 Marshall.	3,000
P. F. Hammersley, 705 Laurel av., concrete foundation for building, alterations changing barn into duplex; address owner, 1810 Laurel av. W.	2,000
R. K. Tyra, 2808 40th av. S., 1-story frame dñl.; address owner, 4834 37th av. S.	1,300
Samuel H. Barker, 3737 14th av. S., 1½-story frame dñl.; address owner, 3749 14th av. S.	2,200
Samuel H. Barker, 3733 14th av. S., 1½-story frame dñl.; address owner, 3749 14th av. S.	2,200
L. F. Henry, 3122 N. Russell av., concrete block foundation, 1-story frame addition to dñl. into duplex; address owner.	1,500
D. E. Fleischer, 4957 S. Upton av., 1-story plaster veneer dñl.; O. Sjøtvædt, builder; address owner, 302 Kasota building.	2,200
R. A. Jacobson, 1717-21 Madison st. NE., 691-99 17th av. NE., 1-story frame warehouse, frame office and shop, 1-story frame barn, 1-story frame feed house; address owner, 217 Walnut.	2,200
Irwin-Dick Co., 2220 Oliver av. S., 2-story brick veneer dñl.; Irwin Goldstein, builder; address builder, 429 Plymouth building.	7,000

The theater known as the Mansfield Theater on Lake st. has passed into the hands of new owners, incorporated as the Calhoun Theater Co., with Wm. Comb, contractor, Lumber Exchange, president and Clifford T. McElroy, architect, Essex building, vice president, Gordon Grimes, attorney, treasurer. Work of completion is being pushed and it is expected the theater will be opened to the public March 1. The ventilating system has been increased, seats will be installed for 800 and music will be furnished with a \$10,000 photo-player; Hawley downdraft smokeless boiler, ornamental glass and ornamental brick interior; contract for plumbing, heating and wiring, ventilating, awarded to Belden-Porter-Gray Co., glass contract to the Mosaic Art Co., for special light fixtures, screens and doors.

The state fair grounds would be pretty thoroughly remodeled, and the buildings rebuilt and rearranged, if recommendations of Secretary Simpson, in his annual report were adopted, concrete would be more generally used as a build-

ing material and a general scheme of parking for landscaping the grounds, with walks, drives, fountains and flower gardens, would be carried out; among buildings suggested are: poultry, large terminal and administration building, dairy, agricultural, horticultural, educational art, woman's liberal arts, machinery buildings, large auditorium, model farm house and barns, poultry yards; new live stock building urged at once.

Sealed bids will be received by the county auditor, Court House, until Monday Feb. 1, 1915, at 11 o'clock a. m., at which time the said bids will be opened by the board of county commissioners of Hennepin county, for repairing and painting bridge No. 21, in the village of Hills and Dales, being contract No. 1, series of 1915, according to specifications on file in the office of the county surveyor. Proposals must be accompanied by a certified check, payable to the order of the county treasurer, for 5 per cent of the amount of the bid, as a guaranty for the execution of a contract if awarded.

There will be \$497,000 available for new paving during the coming summer if the legislature allows a bond issue of \$67,500 for this purpose. There is now \$363,000 in the permanent improvement fund to the credit of the paving department and an additional \$66,500 was allowed for this purpose by the board of tax levy; the bond issue will make up the rest, according to report of F. W. Cappelen, city engineer.

Long, Lamoreaux & Long, architects, 830 Hennepin have completed the plans for the Sykes wholesale building, and will take figures for about a week; plans for the Groveland school, Lake Minnetonka, will be out again for figures in about 10 days; second revision of the plans is being made as figures were again too high.

County surveyor recommends resurfacing nearly 4 miles of Superior blvd. at \$17,000. Eight bridges should be built and four repainted. He urges electric lights for the Narrows bridge; and Rockford bridge should be rebuilt; reglaving many roads and reglading Cedar av. road.

The Beck Electric Construction Co. has just closed a contract for the complete electrical equipment of telephones, signal systems, mail boxes, conduit wiring for three nineteen apartment buildings for the Anderson-Nelson Construction Co., to be erected during the spring and summer.

Bids received until 3 p. m., Wednesday Jan. 20, by city purchasing agent, 217 City Hall, for furnishing the city with 175,000 barrels of Portland cement for 1915; specifications at 217 City Hall; check for 2 per cent, exclusive of sacks.

Lindstrom & Almars, architects, Auditorium block, have furnished plans for a plaster veneer dwelling at 4657 S. Upton, 28x37, 1-story, hot water heat, concrete block foundation, \$2,200; contract to O. Sjøtvædt, 2721 E. 22d.

\*A modern residence is being built at 2200 Oliver av. S. by the Irwin-Dick Co., 42x34, concrete foundation, 2-story, hot water heat, tile bath, tile vestibule, fireplace, sideboard, china closet, sleeping porch and sun-room, laundry, \$7,000; Irwin Goldstein, contractor, Plymouth building.

The Beck Electric Construction Co. have just completed equipping the new college tiggery at 14th av. and 4th st. SE., installing the new type nitrogen lamps and fixtures and special window lighting equipment.

\*Bonds for the city hall, fire station and police station at Breckenridge, Minn., will be offered for sale Jan. 25, and bids will probably be taken soon after; brick, modern, plans by C. E. Bell, Security Bank building.

A theater to cost \$600,000 is to be built in Minneapolis, early next year, according to a statement by Marcus Loew of the theatrical syndicate controlling the Unique and many others in the northwest; seats for 3,500.

\*John Thomas Jones, 900 Metropolitan Life building, is building a frame dwelling at 4812 S. Washington av., 24x24, hot water heat, modern, concrete foundation, day labor; no architect; \$2,500.

\*R. A. Jacobson, 217 Walnut, is building a frame warehouse at 17th av. N. E. and Madison, also office, shop, barn and feed house; day labor; concrete block foundation; no architect; \$7,200.

Rev. Dr. Riley, pastor, First Baptist church states that he expects to finish arrangements to build first unit of the improvements at 10th and Harmon to 11th and Harmon; total cost \$750,000. Jas. A. Burner, architect, McKnight building.

Plans for remodeling old post office and government building, 3d and Marquette, have been submitted to Congress; cost



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

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**PUBLICATION DAY:** Last forms close  
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extra charge.

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Feb. 27. Govt. Bldg., Miles City, Mont. ....	Jan. 9

## PROFESSIONAL DIRECTORY

### ENGINEERS

**OSCAR CLAUSSEN ENGINEERING COMPANY**

Consulting Engineers.  
Engineering Experts to Municipalities.  
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T. S. Telephone Cal. 1941.

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Manufacturers of all Kinds of  
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**Minneapolis Blue Printing Co.**

Most Modern in the Northwest

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Complete line of Keuffel & Esser  
Instruments. Write for Catalogue

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HIGH GRADE POWER AND

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**WM. B. JOYCE & CO.**

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MINNEAPOLIS

NORTHWESTERN MANAGERS

**NATIONAL SURETY COMPANY OF NEW YORK.**

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estimated from \$75,000 to \$100,000; extensive interior alterations.

Preliminary plans for a flat building, 30 apartments, are being drawn by Perry Crozier, architect, 615 Plymouth building, brick modern; also plans for a moving picture theater.

The Beck Electrical Construction Co. are equipping a duplex at 2404 31st av. S.; another for P. J. Sonner on E. 15th st. and a residence at 3133 19th av. S., with electric wiring, bells, etc.

Contract awarded to Gust Schwartzrock, 3824 12th av. S., for the modern farm residence of Mr. Busch, Golden Valley; plans by O. K. Westphal, architect, Northwestern building.

\*Two dwellings are being built by S. H. Barker, 3749 14th av. S., at 3737 14th av. S., 24x26, 1½-story, frame, hot water heat, hardwood trim, \$2,200 each; no architect; day labor.

\*A 2-story frame dwelling is being changed to a duplex at 3122 N. Russell, by L. F. Henry, 3122 Russell av. N., addition being built, hot water heat, plumbing, wiring, day labor.

Permit issued for improvements at 414 Marshall st. NE., for the B. F. Nelson Manufacturing Co. warehouse, etc., 202x27, \$3,000; H. N. Leighton Co., Contractors, 127 S. 10th st.

\*A frame barn is being changed to a duplex at 705 Laurel, by P. F. Hammersley, 1801 Laurel av. W., day labor, plaster veneering, concrete foundation, hot water heat, \$2,000.

\*Victor Fridlund, contractor, 4943 Dupont av., is building a duplex at 3517 1st av. S., 25x38, concrete foundation, plaster veneer, hot water heat, laundry, day labor, \$4,000.

Council committee considering municipal ice plant, recommends construction of several artificial ice factories; cost \$111,150 each; Alderman Peterson, chairman.

\*Fire damaged the elevator and feed plant of the Minneapolis Feed Co., 37th av. and 5th NE., Anoka county; loss, \$45,000, on mill, elevator and warehouse.

Improvements will be made by the Flour City Fuel & Transfer Co. on land just bought, at Franklin and 11th av. S., 150x146; John D. Eckstrom, president.

A large warehouse will be built by S. H. Holstad & Co., coffee importers at 6th av. and 4th st. N., 45x150, 4-story; work will begin early in the spring.

The Beck Electric Construction Co. are equipping a 6-apartment building at 105-7 Spruce pl. with telephones, signal systems, mail boxes, etc.

Request for a post office garage has been made by Postmaster Purdy; capacity 12 machines, basement of new building to be used.

East side residents have petitioned for a junior intermediate high school, at Jackson square, near branch library, Central and 22d.

A bill has been introduced by Representative Jas. Dwyer, Minneapolis, to abolish the city purchasing department.

up by Schneider Realty Co., Buechner & Orth, architects, 500 Shubert building.

Plans by Thos. G. Holyoke, architect, Endicott building, for the church home to be built at Montrose and Dayton, have been accepted by the board of managers of the Church Home of Minnesota, Episcopal, 587 Fuller st.; central division of the three sections to be built next spring, 44x90, with two wings of equal size; 2-story; the 3-story central part will form the court.

Plans will be ready about Feb. 15, for a modern residence at Rochester, Minn., for Dr. W. F. Braasch; brick, half timber, shingle roof, 32x70, 2-story, O. H. Round, architect, Oppenheim building; plans for the C. M. Judd residence at Rochester will be ready about same time, frame, stucco, shingle roof, 34x79, 2-story, garage.

O. H. Round, architect, 202 Oppenheim building, will have plans ready about Feb. 1, for the high school at Independence, Wis., for joint school district 6; Dr. C. F. Peterson, clerk, Independence; gymnasium, auditorium for 150, brick, stone trim, tar and gravel roof, structural iron, 2-story and basement, \$35,000.

Figures which are being taken on the Ramsey county alms house, must be in 2 p. m., Feb. 4; general construction, plumbing, heating and ventilating, electric work, plans at the offices of the architects, Buechner & Orth, 500 Shubert building; Oliver Tong, secretary, board of control, receiving bids, Court House.

Extensive improvements and several new buildings are recommended by Secretary Simpson of the state fair for the coming year at the fair grounds; including walks, drives, landscaping and general reconstruction of minor buildings, with concrete; immediate building of live stock pavilion urged.

W. D. McLeith, architect, Summit and Wabasha, prepared plans for remodeling Porter block, 11th and Robert, from hotel to 5 stores; preliminary plans out and complete plans ready April 1, cost \$5,000, figures will be taken by the Holding Realty Co., care Sperry Realty Co., Pittsburgh building.

\*Public hearing by U. S. engineers, on new railroad bridge to be built over Mississippi, one mile above high bridge, at 10 a. m., Jan. 18, room 304, Customs House; Milwaukee & Omaha roads will build stronger and newer tie bridge, 55 feet over high water, span 150 feet over channel.

Ralph Mather, architect, Pioneer building, is preparing plans for a modern residence on Fairmont near Cretin in Maplewood for Dr. A. J. Sauer, hot water heat, tile bath, tiled vestibule, fireplace, sleeping porch, sun room, concrete foundation, laundry, frame and stucco, \$5,000.

W. D. McLeith, architect, Summit and Wabasha, has furnished plans for alterations from duplex to 4-flat, at 405 Charles, for Wm. Andrews, care architect; 36x44, hot water heat, plumbing, wiring, \$2,500; figures being taken by Sperry Realty Co., Pittsburgh building.

H. E. Erickson, architect, 304 American National Bank building, is revising plans for the apartment building, 9th and Summit, 10 flats, 50x57, \$25,000, for R. F. Rockey, 251 W. 6th; preparations for 14 additional apartments; brick, stone trim, gravel roof.

J. Walter Stevens, architect, 9th floor, N. Y. Life, has prepared plans for alterations and improvements for the Wilder Charities in the 4-story business building on Sibley between 6th and 7th, cost \$10,000; contract to Geo. J. Grant Construction Co., N. Y. Life.

A. H. Stem, architect, Endicott building, has furnished the preliminary plans for the St. Paul Athletic club, and they are in hands of the building committee; A. J. Nason, chairman, Athletic club offices, Pioneer building; steel, terra cotta, offices, \$400,000.

M. C. Taylor is building a modern dwelling on Standford, between Macalester and Underwood, 1½-story, frame, 26x26, concrete foundation, hot water heat, tile bath, laundry tray, gas, electric light, \$2,850; owner builds; address, 285 Macalester.

Permit issued for the store and flat building for E. A. Mierke, 680 Selby, on Selby near St. Albans; plans by W. F. Keefe, architect, 304 American National Bank building; 40x109, 2-story brick, \$15,000; J. J. Trenter, general contractor.

Bids are being taken for road rock for Ramsey county, by the county board, until Feb. 4, to cost \$80,000; board is also taking bids on the addition to the almshouse, to cost about \$100,000; Buechner & Orth, architects, Shubert building.

Further arrangements for the new home building will be made by managers of the home for the friendless, Feb. 2, at the annual meeting; \$100,000 to be raised, \$30,000 collected; will try to open the home next summer.

M. E. Nelson, 1619 Minnehaha, is building a modern dwelling on Minnehaha between Fry and Aldine, 2-story, frame, 26

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday

### Building Permits

A. Margole, #63 Broadway, builder; 2-story frame dwl. and store, Carroll near Kent.....	2,000
J. F. Main & Co., 506 Palace bldg., Minneapolis, builder, 2-story frame dwl., Front near Western.....	3,200
W. C. Seyfried, 1½-story frame and stucco dwl., Lexington near Fairmont; Harris & Johnson, builders.....	3,600
M. C. Taylor, 285 Macalester, builder, 1½-story frame dwl., Stanford near Macalester.....	2,850
Wilder Charities, alterations and repairs to 4-story brick store, Sibley near 6th; Geo. J. Grant Cons. Co., builder.....	10,000
Bradley & Lefebvre, 1-story brick store, 6th near Washington; Lauer Bros., builders.....	30,000
A. H. Heimlach, 831 Fairview, builder, 1½-story frame dwl., 1682 Lafond.....	3,600
Thomas Minahan, 599 Front, 1½-story frame dwl., Simon near Dale, C. O. Hardwick, builder.....	2,400
M. E. Nelson, 1619 Minnehaha, builder, 2-story frame dwl., Minnehaha near Fry.....	3,400
C. C. Stewart, 1873 Hyacinth, builder, 1½-story frame dwl., Lillu C. Oleson, 1169 Reaney, builder, alterations to frame dwl., 1168 Farquhar, near Duhieth.....	2,200
E. A. Mierke, 680 Selby, 2-story brick store and flats, Selby near St. Albans; Jos. J. Trenter, builder.....	15,000

W. D. McLeith, architect, Summit and Wabasha, has completed the plans and figures are being taken until Feb. 15, for the commission row building, including bank and garage, at 11th and Jackson, brick, 2-story, L-shaped; 150x150, each wing 80 feet wide, cost \$225,000, stone trim, galvanized iron cornice, Carey roof, steam heat, refrigeration, insulation; bids are being taken on all details by the architect.

Plans announced for the extension of the St. Paul Arcade, 7th st., call for a fireproof building of 6 stories, 130 feet on 7th and 124 feet on Robert, stores and shops on three stories, offices upper three, old building including medical block, 7th and Robert, to be torn down, spring work; building to be put



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

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ROYAL INDEMNITY CO.  
BONDING DEPARTMENT

ASSETS \$3,514,125.50

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ASSETS \$4,822,371.79

MINNEAPOLIS, MINNESOTA

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#### Dickinson Brick

ALL KINDS

Call for Samples and Prices

DICKINSON Fire and Pressed BRICK CO.

Dickinson, N. D.

#### RUFUS P. MORTON

Manufacturer of

CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
Correspondence Solicited.

### Proposal Advertisements For Bids

#### CHURCH.

Detroit, Minn.

In February bids will be solicited for erection of a Catholic Church at Detroit, Minnesota. Plans and specifications at Builders' Exchange, St. Paul and Minneapolis; Charles Cannon, Pastor.

#### NOTICE TO CONTRACTORS. Gymnasium, Cooperstown, N. D.

Sealed proposals will be received by Berg Bros., at Cooperstown, N. D., up to 1:30 p. m., of Monday Feb. 1, 1915, for the erection and completion of the A. H. Berg memorial gymnasium.

Plans and specifications may be seen at the office of Berg Bros., Cooperstown, N. D., and at the office of Hancock Bros., Fargo, N. D.; also at Builders' Exchange, Minneapolis.

Each bid to be accompanied by a certified check for \$300.00, made payable to Berg Bros.

The check of successful bidder will be forfeited should he fail to enter into con-

tract and furnish a surety bond for the faithful performance of the work.

The right to reject any or all bids is reserved.

By order of Berg Bros., Agents.  
HANCOCK BROS., Archts.

#### BIDS FOR SCHOOL BUILDING. Sioux Falls, S. D.

Notice is hereby given that sealed proposals for the complete construction of a school building at Sioux Falls, South Dakota, to include all labor and material, will be received by the Board of Education of the Independent School District of the City of Sioux Falls, at its office in the High School Building in said city, until four o'clock in the afternoon of the 12th day of February, 1915. All bids must be in strict accordance with the plans and specifications for said building prepared by Patton, Holmes & Flinn, architects, which may be seen at the following places, to-wit: the office of the said Board of Education in the city of Sioux Falls, South Dakota; the office of the said architects at Number 8, South Dearborn Street, Chicago; the Builders' Exchange, Minneapolis, and F. W. Dodge Company, Minneapolis.

A certified check for one thousand dollars (\$1,000.00) must accompany each bid. All checks of unsuccessful bidders will be returned to them within three days after the awarding of the contract. The successful bidder will be required to enter into a contract satisfactory to the said Board of Education and to give a bond satisfactory to said Board in the full amount of the contract price, which bond shall in all respects comply with the laws of the state of South Dakota.

The right is reserved to reject any or all bids.

Board of Education of the Independent School District of the City of Sioux Falls, South Dakota,

By W. B. FULLER,  
Clerk.

**TREASURY DEPARTMENT,** Supervising Architect's Office, Washington, D. C., January 2, 1915.—Sealed proposals will be opened in this office at 3 p. m., February 27, 1915, for the construction complete (including mechanical equipment, lighting fixtures, and approaches) of a two-story and basement, stone or brick

faced building of 6,500 square feet ground area; fireproof construction, composition roof, for the United States postoffice at Miles City, Montana. Drawings and specifications may be obtained from the Custodian at Miles City, Montana, or at this office, in the discretion of the Supervising Architect. Drawings and specifications will be ready for delivery after January 15, 1915. O. WENDEROTH, Supervising Architect.

#### NOTICE TO CONTRACTORS.

Sewers, Mitchell, S. D.

Sealed proposals will be received at the office of the City Auditor of the City of Mitchell, South Dakota, until 8 o'clock p. m., February 1, 1915, for the construction of lateral sewer including labor and material in said City of Mitchell, as follows:

BRANCH "AI," Sewer District Number 2, Approximately 1,984.5 feet 12-inch pipe; 6 manholes.

BRANCH "AJ," Sewer District Number 3, Approximately 1,108 feet 15-inch pipe; 95.5 feet 12-inch pipe and 1,876.6 feet 10-inch pipe; 9 manholes.

All complete and connected with existing sewers.

All work to be done in accordance with plans and specifications on file in the office of the City Engineer.

A deposit of \$5.00 will be required from each contractor for each copy of plans and specifications furnished him. Deposit fee will be refunded upon the return of said copy of plans and specifications together with the receipt given.

All bids must be accompanied by a draft or a certified check upon some solvent bank in the City of Mitchell, S. D., in the sum of five per cent of the amount bid, to insure the signing of contract and the furnishing of a proper and acceptable bond in the full amount of the contract price within ten days from the time of notification of the award of the contract.

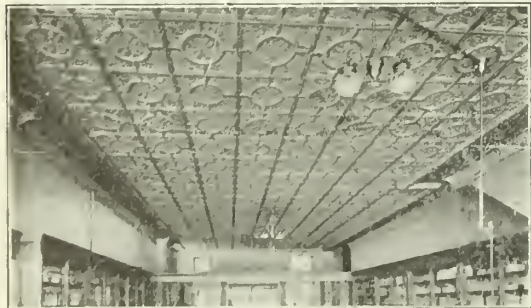
The City Council reserves the right to reject any or all bids.

By order of the City Council.

Dated at Mitchell, South Dakota, this 7th day of January, 1915.

THOMAS EASTCOTT,  
City Auditor.

(Continued on page 16.)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

**ST. PAUL ROOFING, CORNICE  
and Ornament Co.**  
ST. PAUL, MINN.



x26, hot water heat, tile bath, fireplace, sideboard, cabinets, sleeping porch, sun room, \$3,400.

Bids in Jan. 18, 10 a. m., for steel and iron in construction of water works department building, for the city; check 10 per cent; bond 20 per cent; plans with Aug. Hohenstein, purchasing agent, City Hall.

A. H. Heimbach, 831 Fairview, is building a modern dwelling on Lafond between Fry and Aldine, 1½-story, frame, 24x24, hot water heat, tile bath, bookcases, sideboard, laundry tray, mantel, \$3,600.

Necessary money has been raised, \$4,000, by east side residents for a Carnegie branch library; J. A. Regan, Dr. Robert Earl and Dr. T. Gratzek, committee, proposed site, Jessamine and Greenbriar.

The St. Paul Structural Steel Co., St. Paul, has incorporated; \$50,000; Harry C. Palmer, president; Thomas M. Comfort, secretary, 377 Rice, will prepare unfinished steel for structural work.

Contract awarded by the city to the N. W. Electric Equipment Co., for 100 gas filled electric lamps, at \$2.78 per lamp; to the St. Paul Electric Equipment Co., for cutter fixtures at \$9.50 each.

City Architect C. A. Hausler is preparing the sketches for the West Side Carnegie library and as soon as finished they will be sent to Carnegie Foundation offices, New York for approval.

Work of raising funds for \$50,000 Macalester Park M. E. church will be started at a meeting Jan. 28; Frank M. Moore, vice president People's Bank, chairman of campaign committee.

F. H. Ellerbe, architect, Endicott building, has suggested a plaza in front of the new union depot by razing buildings on the two blocks bounded by 3d, 5th, Sibley and Wacouta.

State health authorities at the Capitol are considering a sanitarium project for 8 counties, Nicollet, Brown, Fairmont, Martin, Watonwan, Waseca, Le Sueur and Blue Earth.

Permit issued for the fireproof manufacturing building for the Northern Insulating Co., Wabash av. between Hampden and Raymond, \$25,000.

Bids received till Jan. 21, for the biology building, state university; \$200,000; C. H. Johnston, architect, 715 Capital Bank building.

The city is planning to buy cement in bulk, it is estimated that the amount on which bids will be secured will be about 500,000 barrels.

Improvement of Concord st., St. Paul to South St. Paul, cost \$90,000, approved by the St. Paul council.

Olivet Congregational church will build an addition; Rev. G. M. Miller, pastor, 1832 Iglehart.

Upper and lower levees on the river are proposed by business men.

Fire damaged the 3-story building at 64-66 E. 3d st., \$8,000.

Fire damaged the Liberty hotel, 145 E. 7th, \$1,000.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

\*General contract for the alteration on the Kelley Hardware Co., between 1st and 2d avs. W. and Superior st., Wangenstein & Giliuson, architects, Providence building, to Jas. Falconer.

\*General contract for the addition to the Union Match Factory building to Smith & Vokes.

\*Building Permits—Wiley & Olson, frame dwelling, 12th av. E. between 10th and 11th sts., \$1,500; Asher Taylor, frame dwelling, 43d av. E. and Luverne st., \$3,000; M. J. Doyle, addition to frame dwelling, 41st av. W. and 5th st., \$1,000; Duluth Crushed Stone Co., addition to plant north side of Medina st., \$15,000; O. Grinden, frame dwelling, 8th av. E. and 9th st., \$2,000; Norton estate, repairs to brick store, 3d av. W. and Michigan st., \$9,000; Emil Olson, two frame dwellings, 22d av. W. and 3d st., \$4,000; Jos. Weisenberger, frame dwelling, 11th av. E. and 11th st., \$1,000; Anton W. Johnson, frame dwelling, Pitt st. and 49th av. W., \$2,500.

Plans for the remodeling of the second store of the Kelley Hardware building, have been completed by Architects Wangenstein & Giliuson, Providence building, and bids are being taken.

Architect E. S. Radcliff, Superior, announces that bids were opened on the Berger building of Superior and figures ran too high; changes will be made in plans and new bids called for.

Mayor Prince announces that a site will soon be purchased for a branch library, near N. 20th av., west end; cost about \$25,000.

Bids are being taken on the addition for the Union Match Co. factory, W. Duluth, and will be opened Saturday of this week.

F. H. Lounsberry, Lonsdale building, is remodeling the Wright-Clarkson building, at 4th av. W. and Michigan st.

Jennie D. Brewer is building a double brick dwelling, E. 1st st., between 6th and 7th avs., \$6,500.

O. N. Frederickson will erect a frame dwelling, 7th av. E. between 12th and 13th sts., \$2,400.

Alliance Realty Co. will build a frame dwelling E. 4th st. between 18th and 19th av., \$2,500.

## SUPERIOR, WIS.

Campaign to sell \$60,000 stock in proposed temple for the Camels' order, is being pushed; Dr. A. J. Cox, president of building corporation, 918 Tower av., indefinite plans include: 4-story, brick, 140x50, fireproof; site at Ogden and 4th has been secured; lodge rooms, auditorium, gymnasium, billiard and pool rooms.

\*Estimated cost of 21st av. viaduct over railroads about \$89,000, charts completed by E. B. Banks, city engineer; work to begin in the spring.

\*Omaha road is said to be planning larger and better terminals for this city.

Geo. Lemon, Lemon Bakery, will build a modern residence at 1912 Ogden av.; cost \$7,000; Jno. Stromberg, general contractor.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Building Permits—Jos. Goldrick, 48th near Elm flat, \$4,000; Weber Manufacturing Co., 400 Superior, flat \$5,000; dwelling, \$2,000; J. S. Granman, Bros. Co., N. av., between 40th and 41st av., picture show, \$15,000; Edward Straus, 3406 Lisbon av., alterations, \$1,500; Mary Debus, 39th between Meinecke and Wright, flat, \$4,000; Realty Finance & Securities Co., corner, Teutonia and Keefe av., store and flat, \$6,500; Chas. Friend and Julius Louis, 37th between Clerk and Center, flat, \$3,000; John Wilring, 3215 Elm, flat, \$4,000.

The Badger Architects, 629 Walnut st., are taking bids for the erection of a store, office and flat building, 2-story and basement, solid brick, 27x60, for I. Goldberg at 10th and Walnut sts.; also for a frame duplex costing \$5,000, to be erected on Frederick av. and Folsom pl., owner's name withheld; the same firm is preparing plans for remodeling a store and 3-apartment building on the north side, location and owner's name withheld; bids to be taken about Feb. 1.

H. W. Buemming, architect, 521 Jackson st., closes bids late this week for the erection of a \$12,000 residence on Grant blvd., near Meinecke av., of frame and rough cast plaster construction, 36x48, 2-story and basement; previously noted. The same architect has awarded final contracts on \$15,000 residence for M. D. Brennan on Shepard av. near Kenwood blvd., as follows: plaster, Aug. Bartelt; electrical, Herman Andrae Electric Co.

Brust & Philipp, architects, Camp building, are preparing plans for a \$50,000 addition to the club house of Pere Marquette council, Knights of Columbus, at Grand av. and 15th st., Milwaukee; it will be of brick and cut stone construction, 3-story and basement, 70x130, with gymnasium, swimming tank, etc.; steam heating system extension; bids will be taken about March 1; Frank J. Studnicka, secretary.

Valentine A. Siebert, architect, 557 12th st., will take figures after Jan. 15, for remodeling the store front of the John Ahrens building, 1004 Milwaukee av., South Milwaukee. The same architect has awarded following additional contracts on the store and flat building costing \$8,500, at Keefe and Teutonia avs.: iron work, the Skobis Co.; plumbing, A. Lippert; sheet metal, Klubertanz Bros.

Van Ryn & DeGelleke, architects, 706 Caswell block, will complete plans about Feb. 1, for the new school building at Oshkosh state normal school, Oshkosh. As already reported, the building will be of brick and concrete, 40x266, 3-story and basement; William Kittle, Madison, is secretary of regents.

The C. B. Leidersdorf Tobacco Co., 224 Broadway, is contemplating the erection of a new warehouse and tobacco manufacturing building on Milwaukee st., between Buffalo and Detroit sts., to cost \$40,000 to \$50,000; 3-story and basement, 30x120, reinforced concrete; architect not yet selected.

The McGeoch estate, real estate department, 5312 Greenfield av., West Allis, Milwaukee county, is about to take bids for each and be erected in West Allis during the present year;



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

## PROPOSALS

### NOTICE.

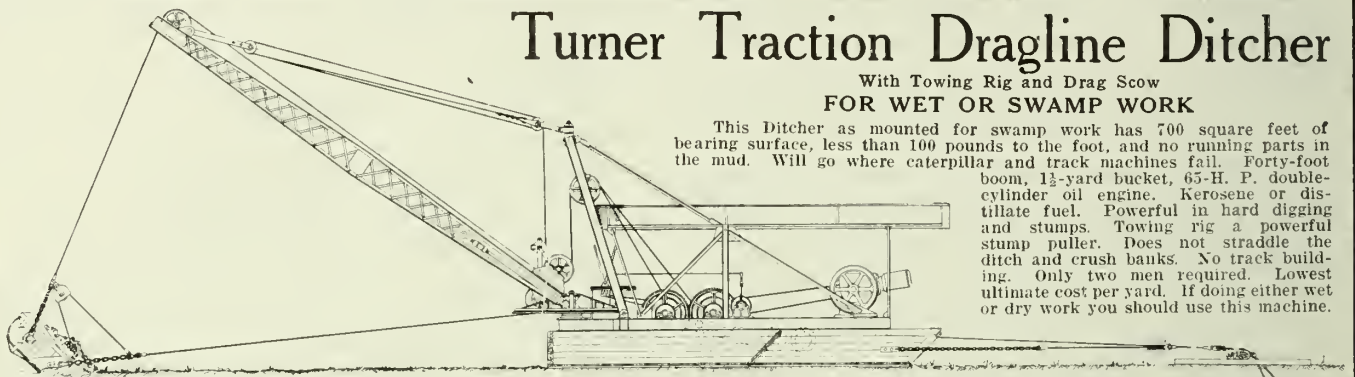
Bids For Sewer System.

Sealed bids will be received by the village of Sandstone, Minnesota, until 8:00 p. m., January 18th, 1915, for the construction of a sewer system consisting of 2,748 feet of 10-inch sewer 3,422 feet of 8-inch sewer, 2,835 feet of 6-inch sewer and 34 manholes.

Plans and specifications may be seen at the office of the Improvement Bulletin, Minneapolis, Builders' Exchange, Duluth, or at the office of the Village Recorder, Sandstone, Minn.

CHRIS RUDISUHLE, Vil. Recorder.

(Continued on page 18.)



## Turner Traction Dragline Ditcher

With Towing Rig and Drag Scow  
FOR WET OR SWAMP WORK

This Ditcher as mounted for swamp work has 700 square feet of bearing surface, less than 100 pounds to the foot, and no running parts in the mud. Will go where caterpillar and track machines fail. Forty-foot boom, 1½-yard bucket, 65-H. P. double-cylinder oil engine. Kerosene or distillate fuel. Powerful in hard digging and stumps. Towing rig a powerful stump puller. Does not straddle the ditch and crush banks. No track building. Only two men required. Lowest ultimate cost per yard. If doing either wet or dry work you should use this machine.

UNITED IRON WORKS COMPANY

SPRINGFIELD, MO.

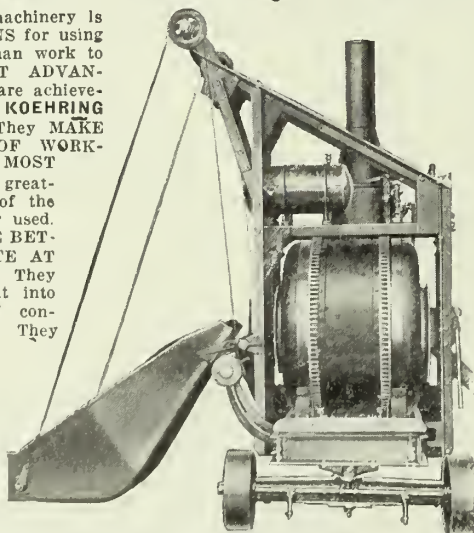
## Measure Value by Result

Any kind of machinery is simply a MEANS for using power and human work to the GREATEST ADVANTAGE. These are achievements of the KOEHRING MIXERS. They MAKE THE WORK OF WORKMEN COUNT MOST

—they get the greatest value out of the time and power used. They PRODUCE BETTER CONCRETE AT LESS COST. They put more profit into every yard of concrete mixed. They take the guesswork away from contracts. They make each dollar invested in them COST LESS TO MAINTAIN, and therefore make each dollar EARN THE HIGHEST RATE OF INTEREST

To do a thing well is desirable; to do it better is more desirable—and to do it BEST is MOST DESIRABLE. MIXING THE BEST, and STANDING UP UNDER THE WORK are two specialties of the Koehring.

And just because it is the Mixer that has KEPT PACE WITH THE GREATEST MECHANICAL PROGRESS, the Koehring is the kind that is sought and bought. It does its talking when it is in USE—and what is a safer standard for judging anything than USE?



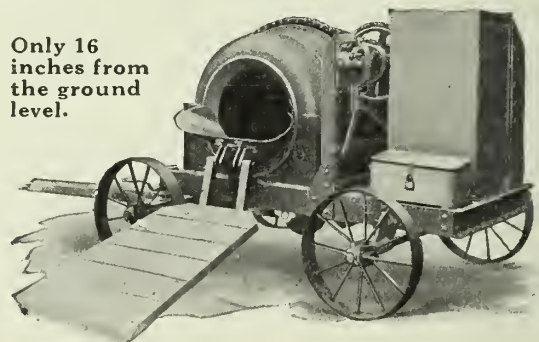
## Koehring Machine Co.

Milwaukee, Wisconsin

H. B. JONES, District Manager  
350 Security Bank Building :: :: Minneapolis, Minn.

## The "Wisconsin"

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**Proposal Advertising For Bids**

**PROPOSALS FOR FRAME HOSPITAL BUILDING.** Department of the Interior, Office of Indian Affairs, Washington, D. C., January 13, 1915. Sealed proposals plainly marked on the outside of the sealed envelope "Proposals for Frame Hospital, Red Lake Agency, Minnesota,"

and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until 2 o'clock P. M., Feb. 15, 1915, for furnishing materials and labor for the construction of a frame hospital at the Red Lake Agency, Minnesota, in strict accordance with the plans, specifications and instructions to bidders, which may be ex-

amined at the office of the paper in which this advertisement appears, the J. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., and Omaha, Nebr., the Builders' Exchange, St. Paul, Minn., and at the Agency. For further information apply to the Superintendent of the Red Lake Agency, Minnesota. Cato Sel: Commissioner.

the material for fifty small residences to cost about \$2,500 Arthur N. McGeoch is president.

H. G. Lotter, architect, 304 W. Water st., awarded final contracts on \$50,000 branch house for Cudahy Bros. Packing Co. at Locust st. and Humboldt av., as follows: mason, Chas. Huebbe; carpenter, Chas. Kleppe; sheet metal, Biersach & Niedermayer.

Brust & Philipp, architects, Camp building, are taking bids for the interior carpenter work and stucco work on the new St. Joseph's convent and chapel, Greenfield av. and Layton blvd., costing \$225,000; dimensions, 210x127; reinforced concrete.

A. C. Eschweiler, architect, Goldsmith building, awarded following contracts on \$15,000 residence and garage for Victor Brown at Wahl av. and Park pl.: carpenter work, Jno. Debink; plaster, Jno. Karow; iron work, C. Hennecke Co.

L. M. Gurda, architect, 478 Mitchell st., awarded contracts for a store and 3-apartment building for Jacob Dosanski at Midland and Manitoba avs., as follows: mason, Jos. Tucholka; iron work, the Skobis Co.; cut stone, Vollbrecht & Olson.

Geo. H. Leipold, architect, is preparing plans for a bungalow and garage, owner's name withheld, in the city of Wauwatosa, Milwaukee county; brick and stucco, 1½-story and basement, 36x42, cost \$8,000; bids about March 1.

Christiansen & Kemnitz, architects, 87 Howell av., will take bids until Jan. 22 for the erection of a \$5,500 residence for H. T. McClellan on Hawthorne av., So. Milwaukee; frame construction, 1½-story, 38x42.

Leenhouts & Guthrie, architects, 427 Jefferson st., are now ready for bids for the erection of a \$60,000 apartment house for F. C. Courtenay and Chas. Gilman on 12th st. near Grand av.; previously reported.

Kamschulte & Webster, 416 M & M Bank building, are taking bids for the remodeling of the store and flat building at Mitchell st. and 7th av.; two new copper store fronts; new steam heating plant.

The Layton Park English Lutheran congregation, Rev. Harry E. Olson, pastor, is contemplating the erection of a \$6,000 church addition this year; architect not yet selected.

Herman Zunker was awarded the general contract for the erection of a \$5,000 frame duplex for Chas. Freund and Julius Louis at 1005 37th st., to be 22x43; George Zagel, architect.

Hugo Miller, architect, 809 M & M Bank building, closes bids late this week for a brick store and flat building costing \$7,500, for Max Kupper on Lincoln av., near 9th av.

John Debus, builder, 3213 North av., will build a frame duplex on 39th st., near Meinecke av., 24x50, costing \$4,500.

**SIOUX FALLS, SO. DAK.**

Permits issued in December included: Anna Carney, house, \$2,200; Dr. B. M. Banton, house, \$8,000; Big Sioux Lumber Co., coal shed, \$800; A. M. Talbert, house, \$3,600; Mrs. H. N. Gates, house, \$4,000; Harry Stoker, house, \$2,200; G. J. Carter, house, \$1,750; Mrs. L. B. Frances, house, \$2,000; John M. Randolph, house, \$3,000; Floyd L. Carter, house, \$2,000; H. F. Schrimmer, house, \$3,200; Arnold Muchow, house, \$2,500; Myrmo Bros., house, \$3,500; All Saints' school, dormitory, \$30,000; Mary S. Keith, house, \$4,000; O. L. Rud, store, \$2,300; N. N. Ccon, house, \$3,400; Mrs. C. B. Walter, house, \$3,500; C. W. Thompson, house, \$5,000; C. St. P., M. & O. R. R. Co., roundhouse, \$75,000; H. R. Bigham, house, \$3,400; Edward Peterson, house, \$1,500; Morrell Packing Co., additional improvement, \$11,000; Clara V. Lloyd, house, \$5,500; Sulzberger Packing Co., improvements, \$15,000; Emil Mortenson, house, \$2,700; M. E. church, church addition and repair, \$15,500; T. G. Cook, house, \$2,800; total \$219,350.

Contract for a large warehouse for Bridgeman-Russell Co., creamery company, has been let to Henry Carlson; work to commence at once.

Carlson & McDowell, mason contractors, Sioux Falls, S. D., have dissolved partnership. Henry Carlson to engage in general contracting. Would be pleased to receive catalogs.

**SIOUX CITY, IOWA**

Real estate men of Sioux City have gone on record through their association, as opposing a housing bill for Iowa on the ground that there are no cities in the state large enough to warrant such a bill. The plan for such a bill originated in a motion of the Rotary club here several weeks ago and the efforts of legislators and Lieutenant Governor W. L. Hart were promised in support. The real estate association declared that such a bill would decrease the annual building of Iowa by more than \$4,000,000.

A committee appointed by the mayor will go to Des Moines from Sioux City to get legislation favoring allowing cities to make tax levy for the permanent improvement of the principal highways leading into the city. This committee also will ask ways and means to provide for enclosing Perry creek, which runs through the city, into a conduit.

L. L. Kellogg, president of the Sioux City Gas & Electric Co., has announced preparations for \$50,000 worth of improvements to the company's power house at 2d and Court sts. This will include a new addition to the plant and the installation of a latest type turbo-unit generator. The company will do its own construction work.

City Engineer Fred Smith has been authorized to prepare plans for a modern sanitary sewer for Morningside addition. The money expended by property owners to bring this improvement will be about \$25,000. A majority of Main st. property owners have presented a petition for a sewer on that street.

Bids will be readvertised by the Woodbury county supervisors for the sale of the \$500,000 bond issue for the erection of the new court house. All bids submitted at the first call were rejected on the ground that the problems offered were unreasonably low. January 19 is the date set for opening the new bids.

The Commercial club of the city is again working on the matter of securing a new concrete bridge across the Big Sioux river at Riverside park, and to secure an appropriation for a new government building here.

Kennedy & Parsons of Omaha, will install a branch dairy and produce house in the Cudahy building, 3d and Wall sts. They will be ready for business by February 1st. E. A. Murphy of Omaha, will be manager.

A \$25,000 building will supplant the Shesler Deaconess' Home at Nebraska and 13th sts. The building committee has been authorized to get plans and report on February 9th.

Building permits for week: F. T. Wilson, shop, 615 Water st., \$1,500; R. B. Morris, house, 3319 5th st., \$1,000; Sioux City Brick & Tile Co., repair kiln at N. Riverside, \$2,500.

**Building Permits**—R. B. Morris, house, 3319 5th av., \$1,000; Frank T. Wilson, shop, 615 Water st., \$1,500.

**OMAHA, NEB.**

Members of the new Omaha Gun club will hold meeting soon to discuss plans to procure funds to erect a new club house, cost about \$10,000, 1-story, frame, large lockers, lounging rooms, kitchen and additional room for luncheons.

An apartment building will be erected by Hastings and Heyden; 6 4-room apartments, with outside porches and 8 3-room apartments; cost about \$40,000; plans by Architect H. D. Frankfurt, 1614 Harney st.

The state will ask for \$100,000 appropriation for erection of a general hospital in connection with university school of medicine; Dr. Irving S. Cutter, register of the college of medicine.

Contract awarded to N. J. Hilding, 925 N. 28th av. for remodeling of moving picture theater for W. F. Smith Co.; 22x80, 2-story and basement; cost \$6,000.

The Carter Lake Club is planning erection of a larger club house, over water front, cost about \$50,000; sinking fund to be started this year for building.

Construction on building on Meyer-Dillion corner will begin about July 1; Armstrong-Walsh Co., agents of new building.



## Before The Winter Winds Come---Be Prepared

WHEN you are making final repairs for the winter, do not fail to mention LINO FELT to your customer. Put it in the walls and roof of his home, and the comfort and saving in fuel which the use of this greatest of all Cold, Heat and Sound insulations will give him, means an increase of business for you. New or Old Buildings. There is a Way.

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### Proposal Advertisements For Bids

#### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 27, Beltrami County, Minnesota.

Notice is hereby given that the undersigned auditor of Beltrami County, Minnesota, will on Monday, February 8th, 1915, at 10 a. m., at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the construction of Judicial Ditch No. 27, located in Townships 158, R. 30-159-29-30-31-160-29-30 one end located 8 miles south-east of Baudette, Beltrami County, according to the plans and specifications of the engineer now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 30.15 miles long, and the estimated number of yards of dirt to be excavated is about 231,182 cubic yards; total estimated cost of the

construction of said ditch being about \$52,214, including highway. Maximum cut 9.8 feet, average cut 5.0 feet. Bids will be received for the work as one job or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county if the successful bidder fails to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract. Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any and all bids is

reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,  
Auditor of Beltrami Co., Minn.  
E. J. BOURGEOIS,  
Engineer.

**TREASURY DEPARTMENT**, Supervising Architect's Office, Washington, D. C., December 31, 1914.—Sealed proposals will be opened in this office at 3 p. m., February 18, 1915, for the extension and remodeling (including mechanical equipment, interior lighting fixtures, and approaches) of the United States postoffice and courthouse at Lincoln, Neb. Drawings and specifications may be obtained from the custodian at Lincoln, Neb., or at this office, in the discretion of the Supervising Architect. O. WENDEROTH, Supervising Architect.

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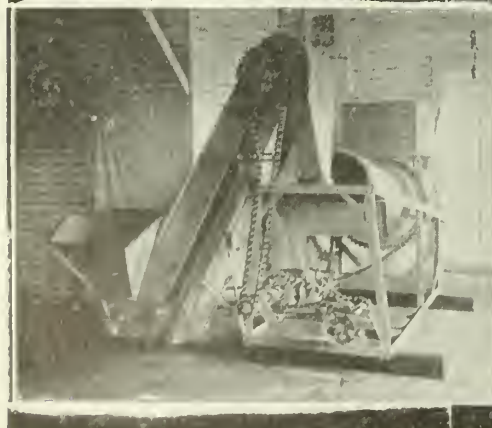
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We manufacture and sell direct to you, Galion Imperial Rock Crushers, Elevators, Screens, Bins, Gravel Screening Plants, Eclipse Portable Stone Unloaders, Steam and Gas Road Rollers and Tractors, Road Drags, Wheel, Drag, and Fresno Scrapers, Galion Rooter Plows, Dump Wagons, Traction Hauling Cars, Street Sprinklers and Flushing Machines.

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**Complete Unit Outfit**  
including mixer, automatic tamper, and concrete block machine (capacity 25 10-inch blocks per hour) with full set attachments. Price \$715.

Write for Catalog with signed letters from Northwestern contractors.

**Bragstad Concrete Machinery Co., Canton, S.D.**



### NOTICE TO CONTRACTORS. State Road, Ivanhoe, Minn.

Sealed bids will be received at the office of the County Auditor of the County of Lincoln at the Courthouse in the village of Ivanhoe, Minn., until 1 o'clock, P. M., Feb. 10, 1915, for building Jobs No. 1, 2, and 3 of State Road No. 1, in the Towns of Royal and Marble, in the County of Lincoln, State of Minnesota.

The work to be done is as follows:

#### Grading.

Excavation 40,023.50 cubic yards.  
Borrow 2,030 cubic yards.  
Turnpiking 11,776 lineal feet.  
Construction dragging 44,500 lineal feet.  
Drainage 800 lineal feet of 12-inch tile from 3 feet to 8 feet in depth.

#### Concrete Culverts.

19 plain concrete culverts 90.6 cubic yards.  
7 reinforced concrete culverts 102.16 cubic yards.

Plans and specifications may be seen at the above named office or at the office of the State Highway Commission, St. Paul, Minn. Each proposal must be accompanied by cash or a certified check for not less than 5 per cent of the amount of bid, payable to the County Treasurer of said Lincoln County. All bids must be upon the blank forms furnished by the undersigned.

The Board reserves the right to accept or reject any proposal.

Dated Jan. 8, 1915.

KARL A. HANSEN,  
County Auditor,  
Lincoln County, Minn.

### NOTICE TO CONTRACTORS. State Bridge, Ivanhoe, Minn.

Sealed bids will be received at the office of the County Auditor of the County of Lincoln, at the Court House in the Village of Ivanhoe, Minn., until 1 o'clock, P. M., Feb. 10, 1915, for building State Bridge No. 1275 on State Road No. 1, in

the Town of Royal in the County of Lincoln, State of Minnesota.

The superstructure will be 30 feet span, 30 feet roadway; concrete floor, on reinforced concrete foundations. Distance from top of floor to bottom of foundations about 14 feet.

(A) Plans and specifications may be seen at the above named office, or at the office of the State Highway Commission at St. Paul.

(B) Plans are to be submitted by the respective bidders, which shall comply with the specifications of the State Highway Commission dated 1912.

Each proposal must be accompanied by cash or a certified check for not less than 5 per cent of the amount of the bid, payable to the County Treasurer of said Lincoln County. All bids must be upon the blank forms furnished by the undersigned.

The Board reserves the right to accept or reject any proposal.

Dated January 8, 1915.

KARL A. HANSEN,  
County Auditor,  
Lincoln County, Minn.

#### SCHOOL.

Letcher, S. D.

Sealed Bids for the Erection of a School Building.

The undersigned hereby gives notice that sealed proposals for the erection of a school building, at Letcher, S. D., to include all labor and material, will be received by the Board of Education at Letcher, South Dakota, until the hour of noon, Feb. 2, 1915. All bids are to be submitted upon blanks for the purpose, supplied by the architect and bids not so submitted will be deemed irregular.

All bids must be in strict accordance with the plans and specifications as prepared by A. H. Shoultz, architect, of Watertown, S. D., which may be seen on and after Dec. 30, 1914, at the following

places: office of architect, Watertown, S. D., Improvement Bulletin, Minneapolis, Minn., R. H. Todd, Clerk of Board of Education, Letcher, S. D.

Sealed proposals will be received at the same time and place for the installation of the heating, ventilating and plumbing systems in the above described building.

Certified checks must accompany bids in the following amount, general contract, 5 per cent; all checks of unsuccessful bidders will be returned to them within five days from the award of contract. The party or parties to whom work is awarded will be required to give a surety or other satisfactory bond in amount of one-half the contract price, as a guarantee of the faithful performance of the work.

The right is reserved to reject any or all bids.

Dated Dec. 30, 1914.

(Signed) R. H. TODD,  
Clerk, Board of Education.  
Letcher, S. D.

### Free Help Wanted Advertisements

#### WANTED.

An all-around experienced draftsman, for the coming season, steady work, begin soon. State experience, give references, and for whom employed, from beginning, with wages received, and expected, with samples of work, and age, married, etc.—full particulars.

Address Improvement Bulletin,  
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Minneapolis, Minn.

WANTED—Several young men who desire to learn the lumber business, having a high school education, some experience in contracting, making plans and blue prints. Give age, experience and references. Box 200, Improvement Bulletin.

## PUBLIC BUILDINGS

**Iowa, Garner**—Plans in progress for proposed Carnegie library building; 30x44, 1-story, \$46,500; J. H. Jeffers Co., architects, First National Bank building, Mason City; H. Kluckhorn, president, library board.

**Iowa, Iowa City**—Liebbe, Nourse & Rasmussen, architects, Des Moines, selected as the architects for the proposed city hall.

**Iowa, Mason City**—Plans for a comfort station submitted to the city council by J. H. Jeffers, a local architect; plans call for concrete building, basement to be used as a comfort station and upper story as a bandstand; if plans are approved bids will be asked for; address city clerk.

**Iowa, Primghar**—Architect will soon be selected for proposed court house; 3-story and basement, \$150,000; J. B. Stamp, county auditor.

**Iowa, Rock Rapids**—Announced that county board hopes to get work going on construction of court house about Sept. 1; building to cost \$110,000 and be strictly fireproof; E. J. Reigel, county auditor.

**Iowa, Traer**—Proposed Carnegie library building will be gone ahead with as soon as financial plans are completed with Carnegie Library Foundation; J. A. Ralston, architect, Syndicate building, Waterloo. Address Dr. H. Brown, Traer, for particulars.

**Kans., Leavenworth**—Following were bidders for the electric wiring for the public library here: Herman Andrae Electric Co., Milwaukee, Wis., \$1,870; Graeber Bros., Lawrence, Kan., \$1,880; Tholen Bros., Leavenworth, Kans., \$1,809; F. E. Newberry Electric Co., St. Louis, Mo., \$2,377; contract not yet let.

**Kan., Leavenworth**—Following were bidders for the library for the army service school: Jno. Barnes, Leavenworth, Kans., \$46,763; R. B. Yoakum, Leavenworth, Kans., \$44,000; Kelly & Baehl, Leavenworth, Kans., \$44,693; Aiken & Thayer, Kansas

City, Mo., \$46,591; Kansas City Construction Co., Kansas City, Mo., \$47,500; Fogel Construction Co., Kansas City, Mo., \$45,987; Jones Bros., Leavenworth, Kans., \$48,872; Nicholas Keller, Kansas City, Mo., \$54,680; John E. Anderson, Kansas City, Mo., \$50,681; J. W. Wright, Leavenworth, Kans., \$48,980.

**Minn., Hibbing**—A petition signed by 22 property owners asking for an extension of the municipal steam heating plant has been presented to the water and light board; address city clerk.

**Minn., Rochester**—Citizens voted to issue bonds to amount of \$18,000 for an armory; address T. O'Sullivan.

**Minn., St. Paul**—A 4-story brick business building is planned for Greggs and University av. by the Minnesota Chemical Manufacturing Co., Herman Barna, president; work to start April 1.

**Minn., Stillwater**—Plans for building new armory have been suspended for the present; a proposition may be made in near future for an addition to the present armory; address city clerk.

**Mo., Neelyville**—Council has approved plans for city hall building and will award contract at once; 2-story, frame, metal, brick.

**Neb., Seward**—Seward county will build a jail this year, the necessary funds being on hand; address county clerk.

**Neb., Sidney**—A prospective of the proposed city hall has been received from B. M. Reynolds, North Platte; plans will be pushed and work started as soon as weather will permit.

**N. D., Bismarck**—Reported that a new capitol building is being considered for North Dakota; H. C. Fish, curator of the North Dakota state historical society. Mr. Fish has written E. E. Corliss for views of the Minnesota state house and information relative to the cost of the building, etc.

**Wis., Crystal Falls**—Proposition to bond city for \$40,000 for completing and equipping city hall carried; address city clerk.

**Wis., Jefferson**—County board has engaged A. D. Conover,



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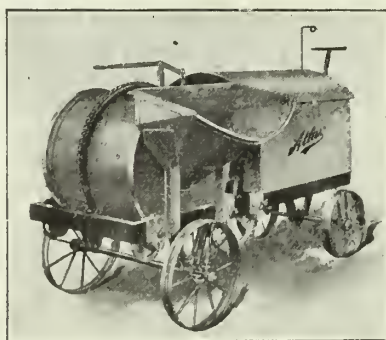
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DAVENPORT, IOWA



architect, Madison, Wis., to prepare plans and specifications for remodeling county jail and sheriff's residence; extension of indirect radiation heating system, new steel cells, etc.; John P. Welch, county clerk.

**Wis., La Crosse**—Plans for the proposed bath house have been drawn by Geo. P. Bradish, city engineer; permanent construction, probably concrete and steel; lockers for women and men, shower baths, rest room, refreshment room; address city clerk.

**Wis., Portage**—A \$30,000 poor house is to be built at Wyocena during present year; E. E. Price, county clerk, Portage.

#### BIDS WANTED.

**Minn., St. Paul**—Bids received by secretary board of control, court house, St. Paul, until Feb. 4, for constructing remainder of the building at the poor farm; cost about \$100,000;

**Tenn., Covington**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., Feb. 20, for the construction complete (including mechanical equipment, interior fixtures and approaches) of the U. S. post office at Covington, Tenn.

**Texas, Dallas**—Bids received by Chas. E. Gross, auditor, Dallas county, until 10 a. m., Jan. 23, for furniture for court rooms; check 5 per cent; specifications from H. A. Overbeck, architect, Juanita building, on payment of \$10.

**Wis., Racine**—J. C. Jensen, general contractor, 1836 Asylum av., will be in the market soon for 200 barrels cement, also lumber, millwork, crushed stone, asbestos shingles for life saving station house, etc., on Mackinac Island, Mich.; expect to start work in March or April; building will be frame with concrete foundation and cost will be about \$19,300.

**Wis., Shawano**—Bids will be taken soon by E. J. Scott on city library building; 34x60, \$10,000; Claude & Starck, architects, Badger Annex, Madison, Wis.

#### CONTRACTS AWARDED.

**Mont., Helena**—Contract for repairing city hall awarded to Peter Jangers.

**Ore., Eugene**—Contract to Fairmount Brick & Tile Co., city, for 400,000 brick to be used in erection of armory; C. Van Patton, general contractor, Salem.

## HOTELS AND HOSPITALS

**Iowa, Ames**—Reported new plans being made for proposed hotel to be built by stock company of which Perry Sheldon is president; 100x100, 4-story and basement, \$100,000; Proudfoot, Bird & Rawson, architects, Hubbell building, Des Moines; ready for bids in the spring.

**Iowa, Des Moines**—Plans in progress for maternity hospital and Benedict home; 3-story and basement, \$20,000; Norman T. Vorse, architect, S & L building; owner, W. C. T. U. of Iowa, care of Mrs. S. C. Slayton, 1082 27th st.

**Iowa, Des Moines**—Preliminary plans under way for 10-story addition and 2 stories added to present structure; Randolph Hotel Co., owner. Plans also under way, contracts to be awarded in early spring, for the improvement and remodeling of the Kirkwood hotel, owned by the Kirkwood Hotel Co.; contracts to be awarded in the early spring.

**Iowa, Des Moines**—Contracts are being awarded for an addition of 5 stories to the Chamberlain hotel building; interior to be remodeled; roof garden, plumbing, steam heat, electric elevator, fireproof construction throughout.

**Iowa, Dubuque**—Plans for addition to the Finley hospital have been prepared by the Schmidt, Garden & Martin Co., architects, Chicago, to cost \$20,000; work to be started as soon as weather permits.

**Iowa, Fort Dodge**—Plans will be made this year for proposed county home, but building may not be constructed until next year; \$50,000; J. L. Hanrahan, auditor, Webster county.

**Iowa, Madrid**—Plans in progress for proposed old people's home, owned by Evangelical Lutheran Home for the Aged; 70x102 2-story and basement, \$30,000; A. E. Norman, architect, 1560 Devon av., Chicago.

**Iowa, Vinton**—Announced that J. N. Gibney, owner, care Hotel Ralysa, expects to begin work on remodeling of hotel about May 1; 3-story and basement; J. A. Ralston, architect, Syndicate building, Waterloo, Iowa.

**Iowa, Waukon**—Commercial club is considering proposition for a new hospital for Waukon; will probably be in charge of Sisters of Mercy.

**Minn., Barnesville**—Henry Preuher of the Hotel Leonhardt, will install a steam heating plant in the spring.

**Minn., Bemidji**—Samaritan hospital burned; loss \$6,000, insured for \$1,000; Mrs. Alene Smith, owner.

**Minn., Farley**—Three-story hotel burned; loss, \$10,000, insured for \$1,000; W. T. Blakeley, owner.

**Minn., Mankato**—Joint meeting of the members of the county boards of Blue Earth, Le Sueur, Waseca, Faribault, Nicollet, Watonwan, Martin and Brown counties to consider the matter of joining in erecting a tuberculosis sanitarium; committee of one from each board to secure information as to cost, etc. \*O. K. Olson, chairman of committee, Mankato.

**Minn., Minneapolis**—Reported that plans are on foot for establishing a chain of 15c hotels throughout the United States by the Rufus F. Dawes Hotel Association; money already subscribed for the first of these buildings, which will probably be in New York, Minneapolis or Seattle.

**Mont., Browning**—Plans for modern hotel to be erected for W. E. Haggert are being prepared by J. B. Gibson, architect, Kalispell, Mont.

**Mont., Malta**—Board of health recommends building a quarantine hospital; C. F. Brigham, chairman.

**Neb., Fremont**—Preliminary plans under way for hotel on site present old city hall. L. M. Keene and Sampter estate, owners; 53x115, probably 3-story, practically fireproof.

**Neb., Hastings**—Dr. Calbreath, city health officer, recommends improvement of city detention hospital and definite action will probably be taken soon.

**Okla., Paden**—D. Golob and others reported interested in a hotel building; probably 3-story and of brick construction.

**Wis., Ephraim**—Eagle Inn hotel, owned by B. D. Thorp, is being remodeled and an addition, 40x56 feet, 2-story, being added; another cottage is also being built; running water being placed in all the hotel rooms.

**Wis., Green Bay**—Fuller details on material for hospital to be built by Wisconsin Deaconess society (Wm. Larson, president, board directors), and plans for which are reported to be completed the latter part of January, are as follows: 3-story, basement, 46x108, brick walls, Denison interlocking tile back, reinforced concrete and Denison hollow tile floors, gypsum block partitions, concrete foundation, asphalt mastic floors in corridors, Bedford trim, sheet metal work, iron stairs with asphalt mastic treads, gravel roofing, fire escapes, battleship linoleum in all rooms (30), marble in toilets, steam heat, limited laundry equipment, vacuum cleaner, electric elevator, dumb waiter, electric silent call system, two operating rooms.

**Wis., La Crosse**—Parkinson & Dockendorff, architects, engaged to prepare plans for a \$35,000 addition to the hospital of the sisters of St. Francis; brick and concrete, fireproof, 4-story and basement, 36x45; steam heating system; the Rev. K. Beyer, priest in charge.

**Wis., Ladysmith**—Plans for a \$40,000 St. Mary's hospital building here are being prepared by H. T. Liebert, architect, Wausau, Wis.; brick, cut stone, and concrete, 40x100, 3-story and basement, vapor heat; bids to be taken about March 1.

**Wis., Milwaukee**—Plans completed for contagious disease building for city; 3-story and basement, \$100,000; address J. C. Pinney for information.

#### BIDS WANTED.

**Neb., Hastings**—Bids called for on a fireproof brick isolation hospital; two miles north of Hastings; address city clerk.

**Neb., York**—Reported bids will be taken about Feb. 1, by architect and owner, on hospital building for Evangelical Lutheran Hospital Association; 2-story and basement; 94x50½; cost \$25,000; brick and stone, semi-fireproof; reinforced concrete, press and common brick, Bedford stone, tile or slate roofing, steam heating, d. s. and plate glass, brick interior finish, plumbing, electric wiring, structural iron, metal lath, ventilators, skylights, refrigerating, automatic elevator, electric power, mantle and terrazzo floors; W. F. Gernandt, architect, Omaha; Fred Strobel, president association.

**Texas, Greenville**—Bids will be called for about March 1 on proposed hotel building owned by W. L. Beckman; cost \$80,000; 3-story, probably fireproof, 109x150, brick, stone, marble, terra cotta, millwork, metal partition, plastering, painting, vitrified paving brick, plate, prism and sheet glass, terrazzo and hardwood floors, tar and gravel roof, vacuum steam heating plant, electric elevator, plumbing, wiring, etc.

**Wis., Wauwatosa**—Bids received by Louis G. Widule, clerk, Milwaukee county, until 10 a. m., Jan. 18, for equipping dormitory and hospital buildings of home for dependent children; check for 2½ per cent.

#### CONTRACTS AWARDED.

**Mont., Terry**—Contract to Ole Courtfelt for new hospital building here; work to start in the spring.

**Neb., Hastings**—Contract to Lou Ellis for pest house at the sewer farm.

**Wash., Spokane**—Contract to J. E. Cunningham for construction work on the Edgecliff tuberculosis sanitarium at \$45,185; plumbing and heating to Standard Plumbing & Heating Co. and the Blair-Meagher Co. at about \$17,000.

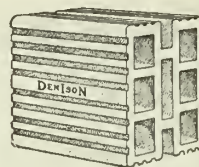
**Wash., Tacoma**—Contract to O. F. Larson for alterations on upper floor of Olympus hotel at \$4,000.



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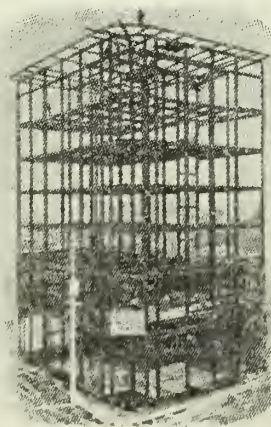
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## THEATRES AND HALLS

**Iowa, Bonners Ferry**—Utopia Lodge No. 36, Independent Order of Odd Fellows, will erect a 2-story, Denison interlocking tile, 37½x120-foot building here, to cost about \$6,500; C. A. Lansdowne, of Spokane, will supervise erection of structure.

**Iowa, Ames**—Plans taken up in spring on Fraternity house for Alpha Tau Omega fraternity, care architects; 3-story and basement, \$12,000; Smith & Keffer, architects, Youngerman building, Des Moines; plans now completed.

**Iowa, Boone**—Arie theater burned, B. Arie, owner; insured for \$8,350.

**Iowa, Boone**—Plans completed for lodge hall, store and office building for Odd Fellows, F. M. Henry, chairman committee; 50x85, 3-story and basement; Weatherill & Gage, architects, Youngerman building, Des Moines.

**Iowa, Fort Dodge**—Architect will be selected soon for proposed building for Elks' club house; cost \$50,000; J. Breen, chairman, building committee.

**Iowa, Mason City**—Plans in progress for Country Club house for Mason City Country club; C. H. Barber, secretary; 102x50, 2-story, Green & Wicks, architects, 110 Franklin st., Buffalo, N. Y.

**Iowa, Mitchellville**—Plans completed, further proceedings postponed until spring, on moving picture theater and two stores, owned by G. F. Gibson, city; 22x125, 2-story, \$5,000; C. E. Eastman & Co., architects, Observatory building, Des Moines.

**Iowa, Muscatine**—A concrete basement will be built to the club house of the Muscatine Power Boat club; address the secretary.

**Iowa, Ottumwa**—Drawings made and decision soon to be reached if building will go ahead in the spring on Country club house for Ottumwa Country club, J. N. Weidenfeller, secretary, 208 3d st.; Geo. M. Kerns, architect, 211 E. 2d st.

**Iowa, Sheffield**—Odd Fellows considering building lodge home on site already owned; W. P. Ormrod, secretary.

**Iowa, Shelby**—M. E. Clapp is remodeling old hotel building into a picture theater.

**Kans., Atchison**—Contracts to be awarded in March for lodge building for Masonic order; approximate cost \$40,000.

**Minn., Barnesville**—Commercial club has plan well under way for purchase of ground and erection of permanent buildings for an annual fair to be held here; address secretary club.

**Minn., Lake Benton**—Fire in the opera house did much damage; extensive repairs and new scenery will be necessary.

**Minn., Luverne**—The opera house will be converted into a motion picture theater; Chas. W. Graff, owner.

**Minn., Rochester**—Plans for club building for Commercial club being prepared; active work on remodeling present structure to begin about April 1; cost about \$15,000; J. M. Rowley, chairman, building committee.

**Minn., Rochester**—Building committee of the Commercial club has been increased to five members and given full power and authority to prepare plans and specifications for the proposed new club building; E. C. Hackett, secretary.

**Mont., Malta**—Masons have purchased site and expect to build lodge home soon.

**Neb., Alliance**—Contributions being made for new community club building; address secretary, community club.

**Neb., Broken Bow**—The chairman of the building committee for the proposed Odd Fellows' building is T. H. Brown; expect to build in the spring.

**Neb., North Platte**—The American Yeomen have purchased site and expect to erect \$25,000 lodge building; address the secretary; plans by B. M. Reynolds, architect.

**Neb., Palmyra**—Announced that stock company will be formed to build town hall, recently burned; address the mayor.

**N. D., Hankinson**—Opera house burned; loss \$10,000, insurance \$3,700.

**S. D., Sioux Falls**—Elks considering plans for erection of \$75,000 lodge building; address the secretary.

**Wash., Walla Walla**—Clarence Crews, manager Dime theater, will build theater costing \$50,000.

**Wash., Walla Walla**—Plans to be prepared by Geo. H. Purvis, Seattle, for the theater to be built for A. W. Eiler, manager, Bijou, to cost \$75,000.

**Wis., Antigo**—Proposed theater by P. J. Hansen & Son will be 45x160, 2-story, brick walls, tile back, concrete floor, front not determined, face brick, steam heat, curtain, seat, 1,200.

**Wis., Ashland**—Michael Southard, Hotel Lenox, city, is promoting the interests of the Lake View Outing club, backed

by capital from Kansas City, Mo.; the club has 7 sections of land and proposes building an \$18,000 club house, located at Delta, a short distance from Iron River, Wis.

**Wis., Green Bay**—Samples of white Italian marble with black or green veins wanted by Anderson & Williams, architects for picture theater costing \$16,000; Hy. Goldman, owner, care Colonial theater.

**Wis., Kenosha**—Plans completed in February on club house for F. O. E. No. 1055, Leo. L. Flasch, secretary; 2-story, basement, 50x100, vitrified brick walls, no hollow tile, structural steel, wood joist, composition roofing, cut stone trim, deadening, marble showers, floor tile, steam heat, bowling alleys, billiards, kitchen equipment.

### BIDS WANTED.

**Iowa, Garner**—Bids will close about Jan. 15, Frank Hansen, owner, for Woodmen's hall and store building; 25x115, 2-story, \$11,000; J. H. Jeffers Co., architects, First National Bank building, Mason City.

### CONTRACTS AWARDED.

**Neb., Omaha**—Contract to N. J. Hilding, 925 N. 28th av., for remodeling moving picture theater for W. F. Smith Co., 14th and Farnam sts.; 22x80, 2-story and basement, \$6,000.

**Wash., Seattle**—Contract to S. G. Coombs, Arcade Annex, for first unit of studio and administration building for the Puget Sound Film Developing Co., at Renton Junction; cost, \$100,000, building complete will cost \$350,000; Warren H. Milner, architect, Arcade building.

## MILLS AND FACTORIES

**Alta., Manchester**—The Edmonton Shoe & Leather Co. of Edmonton, states that an eastern stove manufacturing company will erect a plant here; Norman I. MacDonald, manager.

**Alta., Medicine Hat**—The Medicine Hat Planing Mill Ltd., mill burned; loss \$10,000.

**Idaho, Rockford**—The Rockford Mill & Elevator Co. incorporated, capital \$20,000; Swan Berg, C. G. Sjorstrom and others, incorporators, Bingham county.

**Iowa, Cedar Falls**—The Union Milling Co. is contemplating erection of another large mill on 2d st.

**Iowa, Clinton**—The General Fire Extinguisher Co. plans extensive improvements and remodeling of their plant.

**Iowa, Des Moines**—Plans have been completed for a factory by the Green Foundry & Furnace Co.; probably reinforced concrete and brick.

**Iowa, Des Moines**—Plans are in progress for addition to the bakery building of Campbell Bread Co., cost \$25,000, 1-story; Norman T. Vorse, architect, 911 S & L building.

**Iowa, Des Moines**—Plans in progress, ready by spring, for a 1-story and basement factory and office building for Dodd & Struthers, W. Dodd, president, 720 6th av.; 66x132, cost \$20,000; Proudfoot, Bird & Rawson, architects, 819 Hubbell building.

**Man., Winnipeg**—The Globe Pump Works of Green Bay, Wis., is planning to erect their western Canada factory here.

**Minn., Fairmont**—Permit issued to Ward Packing Co. to erect temporary buildings until new buildings could be erected to replace those recently burned.

**Minn., Red Wing**—J. M. Brent of Chicago is looking up location here for a canning factory, may build if satisfactory arrangements can be made; C. J. Sargent, Peter Kempe and H. E. Akenson, committee appointed to investigate.

**Minn., Virginia**—A. N. Helstrom will erect a saw mill here.

**Mo., Kansas City**—The Missouri Co., 1210 W. 9th st. will rebuild plant recently destroyed by fire; loss of \$75,000.

**Mont., Big Fork**—A company has been organized for purpose of building a pulp mill here; \$50,000 subscribed.

**Mont., Big Fork**—A company has been organized for purpose of building a pulp mill here; \$50,000 subscribed.

**Mont., Grass Range**—Thomas L. Flemming has closed a deal with Raiff & Clark of Billings for erection of a modern flour mill, 36x40, 2-story, to be completed by next August.

**Mont., Moore**—A flour mill will be erected here.

**Mont., Twin Bridges**—Jos. Maurer of the Western Co-operative Building Co., Cedar Rapids, Iowa, and western office at Conrad, Mont., are discussing proposition of establishing a creamery here.

**Mont., Yelm**—F. & W. shingle mill of Chas. Falkner and E. E. Whitlach, was totally destroyed by fire, damage about \$2,500, insured at \$1,000; will probably be rebuilt.

**Neb., Alliance**—Gas Construction Co. will erect a gas plant here; J. C. Martin, representative, Omaha; cost about \$40,000.

**Neb., Kearney**—A new creamery and ice cream factory may



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be established, J. D. Benson of Chicago, and F. F. Robey of Kearney Artificial Ice Plant interested.

**Ore., Medford**—Edgar Hafer plans erection of a sawmill and box factory, cost about \$100,000.

**Wash., Seattle**—A manufacturing plant for construction of reinforced concrete piles, is being considered by L. Y. Slayton, California building, Tacoma; cost about \$150,000; work to begin early in spring.

**Wash., Seattle**—Chester E. Roberts, president of Imperial Candy Co., announces that company will build a large manufacturing plant; cost \$300,000; 120x120, 5-story, fireproof, modern throughout, spiral chute, steel lockers, shower baths, rest rooms.

**Wis., Berlin**—The Schaefer Manufacturing Co., dairy machinery, has been awarded contract for furnishing equipment for the Pacific Coast Condensed Milk Co., Seattle, Wash., for the company's exhibit at the Panama-Pacific Exposition, for one in Washington, one in Oregon and the new \$225,000 plant at Oconomowoc, Wis.

**Wis., Frederic**—The Lone Lake Creamery recently burned, will be rebuilt.

**Wis., La Crosse**—Fire damaged the mill of the Onalaska Woolen Manufacturing Co., about \$1,500; John G. Robb, manager.

**Wis., Marshfield**—The American Gas Construction Co., Newton, Iowa, has laid proposition before the common council of Marshfield, as follows: (a) to be granted a franchise to build, equip and operate an artificial coal gas plant as a private utility; (b) to construct the same plant, including 15 miles of gas mains, for account of the city, as a municipal property, at cost of \$652,000; no decision yet reached.

**Wis., Milwaukee**—Klug & Smith, engineers, Mack block, awarded contracts as follows: on new factory and machine shop for Davis Manufacturing Co.; steel and iron, Worden-Allen Co., Milwaukee; carpenter, Madsen, Christensen & Ingretson; plumbing, Wilhelm Laust, Milwaukee; estimated cost \$125,000.

**Wis., Milwaukee**—Fire nearly destroyed the plant of the Geo. T. Stehling Co., wagon and truck manufacturers; loss about \$25,000; insured at \$15,000.

**Wis., Milwaukee**—Milwaukee Hydro Stone Manufacturing Co., 1208 First National Bank building, will erect a factory, 1-story, concrete foundation, book tile roof on steel I-beams 40x100, will install heat later; owner will build; G. H. Leipold, architect, 160 Martin st.; cost \$4,700.

**Wis., Prentice**—P. H. Hammer has purchased the sawmill of F. Falconer and will remodel same, Mr. Hammer is president of the Red Birch Lumber Co. of Catawba.

**Wis., Superior**—The Superior Manufacturing Co. will replace its dry kiln building recently burned, with a fireproof or semi-fireproof building; work to start in about a month.

## CHURCHES

**Iowa, Merrill**—The Holland people plan erection of a new church at Alvord in the spring.

**Iowa, Ottumwa**—General contract awarded to L. T. Crisman & Co., for Ba-Jacob church; cost, \$10,000; Geo. M. Kerns, architect, 211 E. 2d st.

**Man., Winnipeg**—Work has stopped on the church being built by Knox Presbyterian church on Qu'Appelle av., until spring; heating and plumbing will be let later; general contractor will supply interior fittings; cost \$225,000; J. H. G. Russell, architect, McArthur building.

**Mont., Havre**—Plans are being drawn for a \$60,000 Catholic church here in the spring.

**Neb., Beatrice**—Congregational church plans erection of a new church.

**Neb., Fremont**—The First Christian church plans erection of a new church probably in 1916.

**Neb., Hastings**—Tentative plans are in the hands of the board for new brick church for the M. E. association; cost \$55,000.

**Neb., St. Paul**—Plans are under way for a church for Evangelical Lutheran congregation, Rev. Karpenstein, pastor; brick, cost \$15,000; spring work.

**N. D., Flasher**—Fire destroyed the new Congregational church here, valued at about \$5,000; Rev. Mark Wilson, pastor.

**N. D., Wahpeton**—The German Lutherans will build a church in the spring; funds being raised; Rev. M. W. Riedel, pastor.

**Sask., Regina**—A church will be erected by the Grace Anglican congregation, contract awarded to R. J. Lecky Co., Ltd., 304 Northern Crown Bank; brick and stone, brick foundation, tile roofing, electric lights, steam heat, maple and fir floors, wood lath, lime and sand plastering, art glass, galvanized iron, seating; Clemesha & Portnall, 1722 Scarth st.

architects; Rev. E. C. Earp, pastor, 2241 Winnipeg st.; cost \$35,000.

**S. D., Ardmore**—\$5,000 has been raised toward a fund for erection of new Christian church, to cost about \$25,000, in the spring; W. H. Reed, C. H. Brott, A. H. Seymour, trustees.

**S. D., Sioux Falls**—A new M. E. church will be erected by the congregation, cost about \$50,000; funds being raised; preliminary plans will be taken at once to engage architect, to prepare plans. Rev. E. H. Hutchinson, pastor.

**S. D., Sioux Falls**—Work will commence May 1, on new Catholic cathedral, if financial conditions permit; cost \$200,000; Rt. Rev. Bishop Thomas O'Gorman, pastor.

**Tex., Austin**—The congregation of the First M. E. church is planning to build a new \$100,000 edifice on site of present church.

**Wis., Green Bay**—Funds are being raised for a church for St. Joseph's congregation, Rev. Father Krause, pastor; plans will be prepared by architects, soon.

**Wis., Kenosha**—Private plans prepared for a church for St. Luke's Evangelical Lutheran congregation, Rev. Ed. C. Reim, pastor; cost \$8,000, 2-story and basement, seat 300; day work, by owner, framing.

**Wis., Malone**—A 2-story church for St. Peter's congregation will be erected in the spring; Rev. Gans, pastor, Malone; plans in progress by Architect Jos. Lindl, 312 Main st., Kenosha, Wis.

**\*Wis., Seymour**—Plans are being prepared by Anderson & Williams, architects, Green Bay, Wis., for a church building; cost \$20,000; seat 500; E. M. Huth, J. W. Kreuse and A. G. Keume, all of Seymour, building committee.

## BIDS WANTED.

**Neb., North Bend**—Bids received until 7:30 p. m., Feb. 3, for erection of a Catholic church, Rev. T. S. Moriarity, pastor; check 5 per cent, for the St. Charles Borromeo Roman congregation; plans at office of Architect James H. Craddock, Omaha.

**N. D., Minot**—Bids will be taken in February by the pastor of the Lutheran church for a new church; plans prepared by Robert B. Stacy-Judd, architects, Minot, N. D.; 46x66, concrete, fireproof, steel cast columns, reinforced concrete, fireproofing, electricity, asbestos shingle roof, metal lath, figured, art. leaded, glass.

## SCHOOLS

**Idaho, Pocatello**—Reported steps will be taken at once to rebuild high school recently burned; Dr. O. B. Steely, president, board of education.

**Iowa, Hull**—Petitions are being circulated for a public school building.

**Iowa, Ida Grove**—An Omaha architect is preparing plans for a \$15,000 school building for Holly Springs.

**Iowa, Radcliffe**—The people will soon vote for a \$33,000 school building.

**Iowa, Waterloo**—Plans are in progress for a 4-room grade school and gymnasium, brick, cut stone, reinforcing, fireproof, 2-story and basement, 72x33; cost \$25,000; J. G. Ralston, architect, Syndicate building; J. E. Dempster, secretary, 1130 Williston av.

**Iowa, Waterloo**—A 2-story and basement grade school will be built cost \$12,000, preliminary plans in progress by architects, J. T. Burkett & Co., Lafayette building; brick and cut stone, 49x58; German English Lutheran school, owners; Gustav Kretzschmar, chairman, building committee, 1005 Franklin st.

**Man., The Pas**—A 2-story brick school will be erected in district No. 1625; cost from \$40,000 to \$50,000; David Clapp, secretary-treasurer.

**Mich., Munising**—Plans are being prepared by Charlton and Kuenzil, Munising and Milwaukee, Wis., for a school; 3-story, brick and stone; cost \$75,000.

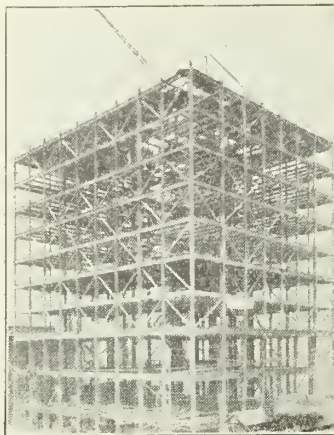
**Minn., Anoka**—Mrs. G. H. Wyman, clerk; \$50,000 bond issue to be submitted Jan. 23, for new grade building and improvement of high school.

**Minn., Fairmont**—Plans and specifications have been completed by Architect C. D. Patsche for the German Lutheran parochial school; plans have not been accepted by the congregation; 40x60, 2-story, elevated basement, lower part of building, rough brick effect and upper part of spatterdash; cost about \$5,000.

**Minn., Polk County**—District No. 188, John E. Lindberg, clerk, Fasson; remodeling 1-room rural school house; frame, jacketed room heater; approved by commissioner of school buildings.

**Mont., Dillon**—Plans are being discussed for erection of a school building on the bench.





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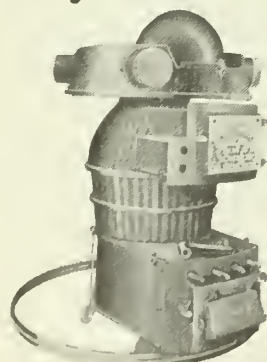
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**Mont., Missoula**—State university is asking for appropriations for erection of new gymnasium dormitory and other buildings for particulars address Dr. Craighead of university.

**Neb., Campbell**—Contracts will be let about Feb. 2, by the C. W. Way Co., architects, Hastings, for new school here; 2-story, brick; cost about \$6,000.

**Neb., Weeping Waters**—School board is contemplating erection of a school building here.

**N. D., Napoleon**—Contract awarded to L. A. Jennings of Wishek, N. D., at \$780, for school in district No. 22, Logan county; other bids were: Herman Hardt, Napoleon, N. D., at \$944; McDowell S. Pratt, Wishek, N. D., at \$695; Mrs. Frank Norris, clerk, board of education.

**Ore., Monmouth**—Board of regents of the Oregon normal school have petitioned legislature to appropriate \$50,000 for construction of a training school here.

**Ore., Portland**—Plans have been prepared for a 4-story building for the women of Reed college; cost about \$120,000; Wm. T. Foster, president.

**S. D., Elk Point**—Special election will be held Jan. 15, in district 78, Union county, to vote on \$1,000 bonds for new school; B. W. Massey, president.

**S. D., Sioux Falls**—Clerk W. B. Fuller, board of education, has been authorized to advertise for bids on a school in east side; board plans erection of two more as soon as possible, one in southern and one in northern.

**\*Wis., Eastman**—Plans have been completed for a public school here, cost \$10,000; 40x60, 2-story and basement, 5 rooms; bids will be taken by H. E. Pierce, president, board of education.

**\*Wis., Racine**—Plans of Guilbert & Funston, architects, accepted by board of education for new school, cost \$90,000, to be erected this year; 16 class rooms, manual training and domestic science departments, auditorium, etc.; no time set to take bids.

**Wis., Waupaca**—A new school building will be erected in Maple Grove, to be ready Sept. 1, 1915, Herman Becker, Emil Schroeder and Wm. Neubauer, committee; all modern.

#### BIDS WANTED.

**\*Wis., Independence**—Bids will soon be taken for erection of \$35,000 high school; plans by O. H. Round, architect, St. Paul, Minn.; 65x100, 2-story and basement, brick and concrete; secretary, board of education, takes bids.

**Iowa, Pella**—Bids will be received in February for a high school, 2-story, brick and stone, semi-fireproof, cost about \$40,000; Jas. S. Cox, architect, Estherville, Iowa.

**Mont., Redstone**—Bids received until Feb. 15, 4 p. m., for sale of \$4,000 bonds for new school building and site, district 2, Sheridan county; check for 10 cent; J. W. Bucklin, chairman; S. E. Paul, district clerk.

**N. D., Bottineau**—Bids received until Jan. 28, 2 p. m., for a school in Loon Lake school district; plans at Tom Olson's or S. M. Siverson, clerk of school board.

**\*N. D., Cooperstown**—Bids received by Berg Bros. until 1:30 p. m., Feb. 1, for gymnasium building. Check for \$300. Hancock Bros., architects, Fargo, N. D. Officially advertised in this issue of the Improvement Bulletin.

**S. D., Letcher**—Bids received until Feb. 2, 12 m., for erection of a school building; A. H. Schoultz, architect, Watertown, S. D., plans at office of architect, Watertown, Improvement Bulletin office, Minneapolis, 716 Lumber Exchange, R. H. Todd, clerk, Letcher; check 5 per cent; official advertisement in the Improvement Bulletin this week.

**Wis., Cuba City**—Bids will be received until Feb. 1, for a new school and sisters' home here; address chairman of building committee.

**Wis., Oshkosh**—Bids were opened for the addition and remodeling of high school building as follows: Fluor Bros. Construction Co., Ganther & Kroyer, C. R. Meyer & Sons Co., the Hutter Construction Co., the Hegner Construction Co., and the Immel Construction Co.; bids will be submitted to Commission council.

**\*Wis., Shawano**—Bids close Jan. 21, for school building, C. C. Fritz, architect, Shawano, F. W. Schmidt, clerk, district No. 2, town of Herman.

**Wis., Shawano**—Bids will be received until 7:30 p. m., Jan. 21, for a new school in Shawano county, district No. 2, town of Herman; plans by C. C. Fritz, architect of Shawano; plans with F. W. Schmidt, clerk, Lyndhurst, Wis., or at office of architect.

**Wyo., Sheridan**—Bids will be received until Jan. 23, noon, for a school in district No. 2, Sheridan county, F. M. Allen, clerk, R. F. D., No. 1; plans with clerk.

#### CONTRACTS AWARDED.

**Iowa, Monona**—Contract awarded to Fuelling & Hirsch of Farmersburg, for \$1,418, for new school, work to begin in the spring.

**Wash., Seattle**—Contract for heating in new Ballard high school awarded to P. J. Lavan, at \$33,250; electrical work to Page, McKenny Co., at \$8,985; a tentative plan for adding three portables and dormitory to the equipment of the girls' parental school was adopted by the board.

**Wis., Menomonie**—Plumbing contract on domestic science building at Stout institute, awarded to Wm. Metcalf, Menomonie, at \$9,875.

## ELECTRICAL

*Notes arranged alphabetically by States.*

**Idaho, Soda Springs**—At special election \$15,000 bonds were voted for a municipal electric light system; Paul Tipton, city clerk.

**Iowa, Mason City**—Reported that Mason City and Clear Lake Railroad will extend city railroad; Frank Hanlon, manager.

**Iowa, Schleswig**—Bonds in sum of \$16,000 will be voted soon for electric light plant and contracts awarded; address city clerk.

**Iowa, Sioux City**—W. L. Steele, city, has been appointed supervising architect for the proposed \$500,000 county building; plans have not been accepted as yet; N. E. Hosmer, county auditor.

**Kans., Great Bend**—Merchants of Great Bend are agitating question of a white way system.

**Kans., Lyons**—The Lyons Electric & Manufacturing Co. plans within the next three months to install a 100 k. w. to 150 k. w. generating unit driven by a Corliss or four-valve automatic belted engine; Dwight Chapin, Jr., superintendent.

**Kans., Natoma**—Contract awarded to F. D. Martin Construction Co., Kansas City, Mo., for an electric light plant, W. B. Collins & Co., engineers, Midland building, Kansas City, Mo.; J. F. Baum, city clerk.

**Kans., Winfield**—City council has authorized electric light and water commission to install an additional 500 k. w. generating unit in the municipal electric light plant; bids will be called for within 30 days; J. W. Welfelt, superintendent.

**Minn., Duluth**—Members of Kenwood Improvement club have condemned the project to install light plant unit, to cost \$85,800.

**Minn., Duluth**—Resolved that the Duluth Edison Co. be directed to install and maintain an incandescent light at 26th av. E. and 4th st. and to move incandescent light in front of lot 392 Lake av. S.

**Minn., Ely**—Bids were received until Jan. 12, 2 p. m., for installation of electric light plant in new 24-room high school; check 5 per cent; plans at office of Thos. E. Miller, secretary, Ely, Minn., and with architect Howard C. Parsons, 601 Phoenix building, St. Paul, Minn.

**Minn., Fairmont**—The Fairmont Telephone Co. is planning to build a \$7,000 building, spring work.

**Minn., Howard Lake**—Contract awarded to the Union Power Co. for electric service wire from here to Waverly, work begun.

**Minn., Slayton**—Following bids were received on the white way system: J. B. Clow & Co., Chicago; St. Paul Electric Co., St. Paul; Western Electric Co., Minneapolis; General Electric Co., Minneapolis; A. H. Savage Electric Co., St. Paul.

**Minn., St. Paul**—Bids for the nitrogen-filled lamps were placed before the council by Councilman Keller; will probably not be passed on until return of V. H. Rochrich, director of testing laboratories.

**Mont., Bozeman**—The Gallatin Valley Commercial club is pushing a campaign for installation of a cluster lighting system; A. L. Love, president, club.

**Mont., Kalispell**—Contract awarded to the N. I. & M. P. Co. for installation of lighting system.

**Mont., Kalispell**—E. L. Barbee has purchased the electrical stock and business of the Flathead Electric Co., 135 1st av. E.

**N. D., Drake**—Electric light system will be installed here; editor of city is advocating a white way.

**N. D., Grano**—Business men will install an electric light plant in a few weeks; address town clerk.

**N. D., Minot**—Fire damaged the Minot Electric Co. plant about \$2,000.

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**Ore., Baker City**—Question will be submitted to taxpayers of the city soon, for erection of a \$180,000 electric light plant; J. L. Stannard, of Portland, made estimate of city.

**Ore., Dallas**—Oregon Power Co. has submitted contract to council for consideration which includes new system of street lighting.

**Ore., Medford**—Southern Oregon Traction Co. will build an additional mile of street railway during 1915. all material to be on the ground within 30 days after contract is signed.

**Ore., Monmouth**—Proposition for better street lighting has been submitted to council by A. L. Martin, local manager of Oregon Power Co.

**S. D., Sioux Falls**—New lighting system will be completed by Feb. 1.

**S. D., Vermillion**—City may purchase electric light plant, belonging to private parties.

**Wis., Chippewa Falls**—Fire in the library this morning caused damage to the amount of \$2,000; address city clerk.

**Wis., Madison**—Building committee of the board of education authorized to secure figures on the cost of barrack buildings for school work; Ole Norsman, clerk.

**Wis., Milwaukee**—City wants a municipal electric light plant; Alderman Kaney will ask council to give consent to a petition to the legislature for required authority.

**Wis., Prairie du Chien**—A white way five miles long will be installed here in the spring.

**Wis., Superior**—The Bell Telephone Co., will erect a building, costing \$100,000 in the spring; W. F. Hallfrisch, local manager.

**Wis., Superior**—The Wisconsin Telephone Co. plans erection of an exchange building, to cost from \$50,000 to \$330,000, 50x140; site purchased sometime ago.

**Wyo., Lusk**—Bonds of \$8,000 will be issued for installation of an electric light system.

**Minn., Adams**—Plans are being prepared by F. W. Kinney, 1003 Plymouth building, Minneapolis, architect, for a store and office building for Krebsbach Bros.; plans out by Feb. 1; 50x96, 2-story, all modern, fireproof, floors, 2 stores, plate glass front, metal bars, Luxfer prism lights, flat roof, steam heat, hardwood throughout, running water, in offices, concrete foundation; cost about \$5,000.

**Minn., Frontenac**—A new bank will be established here by the Mortgage Security Co., capital \$10,000; A. R. Santelman, John Hoffman, Anton Schafer, directors.

**Minn., Little Falls**—A new store building will be erected by Swanson Bros., in the spring, at Freedheim.

**Minn., Little Falls**—Fire damaged the St. Paul Dry Goods Store, owned by L. O. Wessel.

**Minn., Little Falls**—Fire damaged the business block of State Game & Fish Commissioner Ryder; loss \$6,000.

**Minn., Minneapolis**—S. H. Holstad & Co., coffee importers and roasters, will build a large warehouse in North Minneapolis, 601 and 603 4th st. N., first unit will be 45x150, 4-story; early spring work.

**Minn., Minneapolis**—Ernest Kennedy, architect, Essex building, is preparing plans for a store and office building, 1115 Hennepin, for E. C. Gale, 800 Security Bank, fireproof, 2-story and basement, foundation for additional story, 46x100; a 15x35 1-story addition will be built at rear, concrete foundation, concrete floor in basement, concrete and composition floor, first floor; concrete second story, steam heat; plate and prism glass, copper metal bars; brick walls, concrete skeleton, tar and gravel roof, press brick, front, stone trim, galvanized iron cornice, birch finish, steel sash, wire glass, electric freight elevator, electric light, steel and slate stairs, sprinkler system, gas, plumbing, lavatories, hot water tank, hard wall.

**Minn., Nevis**—Fire destroyed the Nevis Mercantile Co.'s store building, loss about \$15,000.

**Minn., Rockville**—Menz Bros. will build an addition to their store; cost \$1,500.

**Minn., St. Cloud**—Bids were taken Jan. 11, 4 p. m., for addition to Daniel's furniture store, 3-story.

**Minn., St. Cloud**—G. A. Carpenter is preparing plans for a warehouse for St. Cloud Oil Co.

**Minn., Welcome**—Fire destroyed the furniture store of A. Krumdweide, loss \$10,000; jewelry store of L. Halgren, damaged about \$3,000.

**Minn., Welcome**—The Krumweide furniture store and jewelry store of L. Halgren, burned; loss about \$18,000.

**Mont., Billings**—H. Silverman will build a new warehouse in the spring.

**Neb., Elm Creek**—Fire destroyed the office building of the Beacon Newspaper Co., loss about \$7,000; J. E. Keenan, owner, business block.

**Neb., Fremont**—The Standard Oil Co. will erect a modern

**Neb., Greeley**—Plans are under way for erection of a mercantile house.

**Neb., Lincoln**—The Midwest Investment Co. will build a warehouse, brick; cost \$22,000.

**N. D., Dickey**—The store of Kamins & Son burned; loss \$15,000; partly insured.

**N. D., Dunn Center**—Work will begin soon on the business block.

**N. D., Minot**—Fire damaged the building of the Minot Electric Co. about \$2,000.

**N. D., Minot**—Plans have been prepared by Architect Robt. B. Stacy-Judd of Minot, for a bank building, stone, etc., cost \$12,000; bids to be taken shortly by architect; work is rebuilding and alterations, decorations, Union National Bank, owners: steel cast columns, ornamental iron fire escapes; lime cut stone, common brick, steel shutters, vault doors, electric lights, ornamental plaster, plate, leaded and sidewalk glass, tile floors, marble interior, maple floors and tile.

**N. D., Whitman**—Fire damaged the store of J. J. O'Connell about \$300.

**Ore., Salem**—Firm of Rolstein & Greenbaum is planning to reconstruct its place of business; cost \$1,500.

**S. D., Wessington Springs**—The Templeton store building burned; valued at \$2,800; insured at \$1,700.

**Wis., Fond du Lac**—The Ruh Drug Co. filed articles of incorporation; capital \$25,000; A. P. Ruh, Wilbur C. Lalis and E. M. Givens, incorporators.

**Wis., Manitowish**—Paul & Paul, cheese makers, awarded contract for erection of ice house 30x10.

**Wis., Milwaukee**—Alfred C. Clas, architect, Colby-Abbot building, Milwaukee is completing plans for and preparing to take bids on first unit of a 10-story store and office building, for Chas. W. Somers, Cleveland, Ohio; brick, steel and terra cotta concrete foundation, capable of supporting 10 stories, 3 to be erected at this time; 100x112; cost \$300,000.

## BUSINESS BUILDINGS

**Alta., MacLeod**—Fire destroyed the warehouse of the Dominion Cartage Co.; loss \$5,000; insured.

**Ark., Heber Springs**—Excavation under way for a 2-story brick store building for Gribble & Glenn; owners will award contract.

**Idaho, Blaine**—General merchandise store of Swedenberg Bros. burned; loss \$5,000; \$3,000 insurance.

**Iowa, Albion**—Fire destroyed the old Cleveland block; loss about \$15,000; occupied by the Tobey & Backett cigar factory and roller rink, Gore's pool hall, Palace candy kitchen and National Clothing Co.

**Iowa, Centerville**—The Appanoose Telephone Co. will erect a 2-story and basement, 25x90, office building, cost \$10,000; Weatherell & Gage, architects, 202 Youngerman building, Des Moines, Iowa; contract to be awarded in the spring; stucco on hollow tile, composition roof; C. A. Errington, manager.

**Iowa, Des Moines**—W. M. Vanderwaal, 507 S & L building, will erect a store and apartment building, 2 stores, 17 apartments, 4-story and basement, 55x52, reinforced concrete and brick, composition roof, will let contract in spring; Norman T. Vorse, architect, 911 S & L building.

**Iowa, Des Moines**—The Globe Machinery & Supply Co. will erect a new building, two or three stories or more as needed spring work.

**Iowa, Des Moines**—Plans have been completed for a 1-story and basement, 40x85 store building for P. L. Crouch, 1115 E. Grand av., brick, composition roof; owner will build in spring; Smith & Keffer, 610 Youngerman building, architects.

**Iowa, Fort Dodge**—Plans are being made to erect a modern business building, to be occupied by the Mathre Bros. cycle shop.

**Iowa, Fort Dodge**—A 3-story and basement store and flat building will be erected in the spring by E. T. Leighton, 1224 1st av. S., brick and stone, composition roof, 60x140; J. H. Albright architect, 9 Oleson building.

**Iowa, Iowa City**—Smith & Cilek hardware store damaged by fire about \$25,000.

**Iowa, Odebolt**—The National Bank will erect a bank building, cost \$60,000, also the Co-operative Store will build in the spring, 2-story.

**Iowa, Ottumwa**—Haw & Simmons Co., C. T. Haw, secretary, 108 W. Main st., will erect a 4-story and basement warehouse, (hardware), 130x150, cost \$100,000, reinforced concrete construction composition roof, structural, ornamental and architectural iron; will not start plans until spring; Geo. M. Kerns, architect 211 E. 2d st.

**Iowa, Waterloo**—Fire damaged a 2-story frame business building; loss about \$5,000; insured at about \$3,000; Ira J. Hoover and Frank Marquis, owners.



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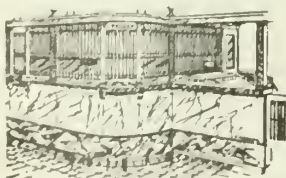
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**Wis., Milwaukee**—A state bank is being planned for city near Lisbon av. and 34th st.  
**Wis., New London**—Fire damaged the Lurzevski building.  
**Wis., Portage**—Emporium business block burned.  
**Wis., Stoughton**—Edward Tough, architect, 434 W. Mifflin st., Madison, Wis., is preparing plans for remodeling banking house of the Stoughton State Bank.

## RESIDENCES

**Iowa, Des Moines**—A new 4-story flat will be erected by Harry Polk.  
**Minn., Hibbing**—Fire damaged the home of Geo. Scott, about \$1,500.  
**Minn., Northfield**—Herb Hildebrand will erect a modern house in the spring.  
**Mont., Butte**—The Episcopalians plan to build a modern parish house, with complete gymnasium, cost about \$25,000; Chas. F. Chapman, pastor, St. John's church.  
**Mont., Butte**—Plans are under way for a \$25,000 parish house and gymnasium for St. John's Episcopal congregation. Rev. Chas. F. Chapman, pastor.  
**Neb., Big Springs**—Chas. Watts will build a dwelling; S. D. Beedle, contractor.  
**Neb., Fremont**—Wm. Koyen will erect a modern 2-story residence.  
**Neb., Lynch**—J. V. Koshin will erect a residence.  
**Neb., Newman Grove**—A. B. Robinson will erect a modern farm house.  
**Neb., Randolph**—Dr. Gleason will erect a modern bungalow, 28x40.  
**Wis., Chetek**—A modern bungalow will be erected by A. T.  
**Wis., Milwaukee**—A 3-story 6 apartment building, will be erected on Summit near Park pl., 46x81, brick and terra cotta, cost \$25,000; Architect Byron Scheiderer, in charge of work.  
**Wis., New London**—Otto Pribnow will build a modern house in the spring.

### BIDS WANTED.

**Wis., Hudson**—Bids received until Feb. 15, for erection of an addition to the sheriff's residence; plans by W. H. Wallace, architect, on file in the treasurer's office, Christ Nebel, county agent.

### CONTRACTS AWARDED.

**Wis., Milwaukee**—Contract awarded to Ormsby Mantel & Grate Co. for tile work on the \$20,000 residence for Dr. O. H. Foerster.  
**Wis., Milwaukee**—Contracts on \$25,000 home to be erected by A. Teweles, awarded as follows: cement, August Hackbarth; tile, H. Neidner & Co.; sheet metal, H. E. Schnetzsky; iron work, C. Hennecke Co.; electric work to Wisconsin Electric Construction Co.; art glass, Milwaukee Mirror & Art Glass Co.

## MISCELLANEOUS

\***Minn., Hibbing**—Contract awarded for incinerator to McGuire Co. of Chicago, construction to begin at once, brick.  
 \***Wis., New Richland**—A modern slaughter house is planned by F. O. Hemmway, Bell Market, spring work, refrigeration.

### BIDS WANTED.

**Minn., St. Paul**—Bids received by August Hohenstein, purchasing agent, until 10 a. m., Jan. 25, for one No. 10 Smith or equal concrete mixer on steel truck with 4 h. p. gasoline engine; check for 10 per cent.  
**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., Jan. 25, for 200,000 feet lumber for bridge repair work; check 10 per cent.

## FIRE APPARATUS

**Iowa, Waterloo**—Members of the fire department plan to motorize the entire local fire department during the coming year; plans to be approved by the city council.  
**Minn., Duluth**—With 15 motor fire fighting units already installed, Hicken and Fire Chief Randall plan to expend \$16,000 from the 1915 fire department allowance for additional motor equipment.  
**Minn., Duluth**—Contract awarded to the Burgess Electrical Co. at \$405, to furnish electrical supplies for the fire department.  
**Minn., St. Paul**—5,000 additional feet of fire hose will be purchased by the city for the Hamline fire department.

**Wis., Janesville**—Chas. E. Tallman was elected fire chief.

**Wis., Madison**—Council has ordered purchase of aerial tractor for fire department at cost of \$4,800; South Madison may incorporate.

**Wis., Manitowoc**—All bids for purchase of combination hose and chemical truck were referred to the committee on fire and water; South Bend Motor Car Co., being lowest bidder, at \$3,600.

**Wis., Waukesha**—Fire and police commission has recommended purchase of a combination chemical and hose car; P. Wilde, chief.

## PARKS AND CEMETERIES

**Wis., Fond du Lac**—The Weges Prairie Cemetery Association incorporated; A. Pallister, M. H. Pinkerton, E. C. Sherwin and H. S. Hazen, incorporators.

**Wis., Oshkosh**—Following bids were received for work at Park; The Cook & Brown Lime Co., crushed stone at \$1.50 per yard and rubble stone at \$6.75 per cord; Robert Lutz, rubble stone, at \$7 per cord; No. 1 and 2, crushed stone, at \$1.45 per cubic yard and screenings at \$1.50 a yard; no decision made yet.

## RAILROADS

\***Minn., Baudette**—Superintendent Nelson of the Canadian Northern railroad stated that road will build a branch line from here to the American side to connect with the company's Duluth line below Ranier.

\***Neb., Virginia**—Fire destroyed the Rock Island depot here; will be rebuilt at once.

**Wis., Cameron**—Hearing Jan. 9, on the needs of a new station at Cameron by state railroad commission.

## ELEVATORS

**Iowa, Sioux Rapids**—The Button Elevator Co. will rebuild after fire; L. J. Button, owner.

**Minn., Echo**—Fire destroyed an elevator of the Echo Milling Co., loss about \$5,000.

**Minn., Grand Rapids**—Plans are being discussed for a potato warehouse, O. F. Guildeneister and Raymond Sisler, interested.

**Neb., Ord**—The Farmers Grain & Supply Co. are contemplating erecting a new elevator.

**N. D., Cando**—Fire destroyed the elevator of the Farmers' Elevator Co.; J. W. Surber, owner.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**Iowa, Ames**—At the conference of county highway engineers held here under the auspices of the state highway commission gravel and concrete highway construction was recommended by those who discussed road improvements.

**Iowa, Belle Plaine**—About 27 blocks of paving are contemplated for this season in the city; Chas. P. Chase, care Iowa Engineering Co., Clinton, engineer.

**Iowa, Burlington**—Hearing Feb. 1, on grading, curbing with artificial stone and paving with cement concrete, 30 feet wide, on Sumner st.; Robt. Kroppach, city clerk.

**Iowa, Cedar Rapids**—Hearing Jan. 22 on construction of a river wall, sidewalk and stairs, according to plans by Howard R. Green, engineer; L. J. Story, city clerk.

**Iowa, Clarinda**—Hearing Jan. 22 on grading, curbing, guttering and paving Water st.; paving to be either concrete or asphaltic concrete; also, curbing on same street; T. A. Wilson, city clerk.

**Iowa, Dubuque**—Commencing Jan. 15, the first mile of the proposed new road from Eagle Point to Platteville, Wis., will be laid out; will be one of the best in state of Wisconsin, 23-foot surface of macadam with a railing on either side, cost between \$70,000 and \$75,000, 15 miles long, and will be known as the Dubuque-Platteville road; State Engineer Donegan, Madison, Wis., completed the survey; address John Longbotham, Dickeyville, Wis., for particulars.

**Iowa, Dubuque**—City will advertise for bids for one mile of asphalt, brick or concrete paving on Delhi and Julien sts. about Feb. 20; also has under consideration, preliminary plans now in progress, for 64,000 yards paving on various streets,



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either brick or concrete and asphalt; E. C. Blake, city engineer.

**Iowa, Fort Dodge**—Plans on paving will be taken up about April; prospects for considerable work; address city clerk.

**Iowa, Marshalltown**—Lincoln Highway Association has offered to give free 2,000 barrels of cement to this city providing it builds two miles of paved highway nine feet wide; city has accepted and will build 1 mile east and 1 mile west, the first in Iowa to be paved on this highway; address city clerk.

**Iowa, Mason City**—Bids will be asked for next month on 12,271 square yards street paving, cement, brick and asphalt, costing about \$200,000; F. P. Wilson, city engineer; also, for 51,054 yards cement paving and 27,000 lineal feet of curb.

**Iowa, Ottumwa**—Approximately 50,000 square yards of street paving is to be undertaken in the spring, material not determined upon; John T. Brady, city engineer.

**Kansas**—Following Kansas cities have paving in view: Sabetha, 12 to 40 blocks in the spring; Herrington and Clay Center, also early in the season; also, Holton, Cherryvale and Fredonia; Concordia will put down 3 miles of paving; address city clerks.

**Minn., Bemidji**—Announcement is made that bids are to be advertised for immediately for state rural highway No. 32, extending across the entire length of the north end of Beltrami county from Clementson to Roosevelt; E. J. Bourgeois, engineer, Bemidji; J. L. George, auditor, Beltrami county.

**Minn., Cloquet**—Citizens of the county moving for a new state road from Cloquet to the town line between Knife Falls and Perch lake, hearing having been held Jan. 5.

**Minn., Duluth**—Low bid for the construction of the Agnew road, 5 miles, has been made by the Road Construction Co., of Grand Rapids, Wis., at \$8,895, and contract will probably be let to this company.

**Minn., Moorhead**—Plans being completed for an addition of 34 acres to the town, and possibly of 74; street will be graded and sidewalks built next summer; also, sewers and water works put in; address Nels H. Overboe.

**Minn., Remer**—Settlers near here in the eastern part of Cass county, are working on a project to establish a state highway to start at Remer, tapping the north road and thence to the state highway between Aitkin and Grand Rapids; I. P. Byhre, auditor, Cass county, Walker.

**Minn., St. Cloud**—Property owners divided as to the manner of treating St. Germain st.; may temporarily bind macadam and may install creosoted blocks; C. H. West, city engineer.

**Minn., St. Paul**—Preliminary orders for paving projects approximating \$250,000 have been introduced in the council, this completing the program of Commissioner Goss for the year. One order calls for paving of Marshall av. from Snelling av. to east end of Marshall av. bridge, a distance of 14 blocks, also for paving of Selby av. from Victoria st. to Fairview av. and Fairview from Marshall av. to Selby av. Provision also was made for paving of Wabasha st. from Congress to Winifred; Winifred from Wabasha to Ohio; Ohio from Winifred to George; George from Ohio to Smith av.; Hope st. from 7th st. to 4th; Como av. from Dale st. to Union; E. 6th st. from the east end of the bridge to Hope st. The orders introduced provided for more than 4 miles of paving. The total paving for the year includes an expenditure of about \$1,250,000.

**Mont., Billings**—Announcement is made that paving of both ends of 1st av. N. will be resumed in a month or six weeks; contract is held by Warren Construction Co., Denver, Col.; paving will be bitulithic.

**Neb., Beatrice**—Several petitions in circulation for paving, one having sufficient names to fulfill the law; address city clerk.

**Neb., Falls City**—City council planning additional paving for spring, to be in the 3d ward, districts 9 and 10; address city clerk.

**Neb., Omaha**—House military committee at Washington has agreed to an amendment to one of the appropriation bills for \$600,000 to be used by the war department for repairs on roadways adjacent to forts and fortifications where troops are quartered; of this amount, \$6,000 is proposed for use on the 30th st. road at Omaha.

**S. D., Sioux Falls**—County commissioners will spend \$4,000 for paving 6th st. bridge; address county clerk.

**Ore., Portland**—Low bidders on improvement of E. 48th st. with asphaltic concrete were: Gelbisch & Joplin, Rothchild building, at \$4,046 and for sidewalks, grading and curbs on other streets were: Solomon & Hanna, at \$1,687.

**Wash., North Yakima**—Plans for a small stretch of paving on South First st. are being prepared by City Engineer Gilman.

**Wash., Olympia**—Plans for improvements of state roads in 1915 are reported to call for an expenditure of about \$2,000,000. Wm. R. Roy, chief engineer.

**Wash., Seattle**—Plans submitted to board public works by city engineer for brick paving on Utah st., cost \$297,896; grading and curbing 44th av., cost \$22,251; grading and curbing 32d av. N., cost about \$13,000.

**Wis., Appleton**—City expects to advertise this month for bids for paving about 1 1-4 miles on various streets; bids to be on asphalt, concrete, creosoted blocks, brick, sandstone block; A. C. Remley, city engineer.

**Wis., Baraboo**—Five blocks of macadam paving are to be ordered in the spring; H. E. French, city engineer.

**Wis., Beloit**—Reported petitions are being circulated in several wards of the city for temporary improvements on some streets where paving has been voted; address city clerk.

**Wis., Danbury**—\$15,000 is available for 1915 for work on 12 to 15 miles of road in 10 towns and one village, grading and concrete culverts, some local graveling and clay surfacing; Hugh Jeffries, highway commissioner, Danbury.

**Wis., Delavan**—Resolution passed to pave Walworth av., Racine st. and 7th st.; concrete, asphalt or macadam, together with Portland cement concrete combined curb and gutter on Walworth av. and 7th st.; board of public works directed to prepare plans and specifications and estimate of the cost; H. J. Doane, city clerk.

**Wis., Fond du Lac**—Plans being made for city work to be ordered about Feb. 1, include 7 blocks of brick and concrete on Western av., one mile of concrete on Johnson st., 5 or 6 blocks of concrete on Superior st., about 6,000 lineal feet of concrete on Scott st. and one block of concrete on Cottage av.; John McCullough, city engineer.

**Wis., Gotham**—County has appropriated \$600 to purchase an oiler; G. H. Mainwaring, highway commissioner, Gotham; there is available the sum of \$46,200 for 12 miles of macadam and one mile of graveling in 1915.

**Wis., Green Bay**—Special meeting to be held by citizens of Allouez, Jan. 21, relative to concrete boulevard along the Fox river road between Green Bay and DePere through the town of Allouez; Eric Wiese, chairman, town board.

**Wis., Kenosha**—Sum of \$42,000 available for proposed road work in the county during 1915; \$13,000 to be used for paving on the Somers and Burlington roads with concrete, and the balance for graveling and macadamizing; John F. Herzog, for information.

**Wis., La Crosse**—Approximately \$70,000 worth of paving ordered at recent meeting of council, asphalt macadam ordered on 13th, 16th, Pine and Wood sts., and brick on La Crosse, 4th and the approach of the new Rose st. viaduct from Wall st. to the viaduct; address city clerk.

**Wis., Madison**—Board of public works may cut proposed paving program from \$364,000 to \$250,000 as a matter of economy; board suggests that concrete, asphaltic concrete, asphalt mixed macadam, brick, tar macadam and others, be the material used; address city clerk.

**Wis., Marinette**—Council has ordered extension of concrete paving on Carney av. from Stanton st. to Pierce av., a distance of four blocks; address city clerk.

**Wis., Marshfield**—Council petitioned to pave Central av. from Omaha tracks to 9th st.; address city clerk.

**Wis., New London**—An expenditure of \$30,000 will be made for street improvements; address city clerk.

**Wis., Oconto**—No road machinery will be bought, but \$30,000 has been appropriated for graveling and macadam in 1915; Jas. Devereaux, highway commissioner, Oconto.

**Wis., Oconomowoc**—Plans in progress for paving in this city with asphalt, creosote blocks or macadam, to the amount of \$15,000; C. J. Schoenike, city clerk.

**Wis., Peshtigo**—Sum of \$1,000 appropriated to buy small tools for road work and possibly a road grader, purchase to be made after the meeting of the road school; \$50,000 is available for macadam and graveling in the county in 1915; Andrew Eklund, road commissioner, city.

**Wis., Princeton**—Green Lake county will purchase a dump wagon, power drill and small tools to the amount of \$2,000 after the road school meeting at Madison; \$2,000 has been appropriated for oiling next season; T. J. Paull, highway commissioner, Princeton.

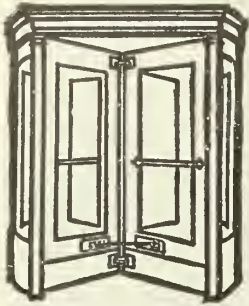
**Wis., Rhinelander**—F. E. Parker, county road commissioner, favors the adoption of a clay-gravel road plan in Oneida county; about \$60,000 are being spent this year and with the expenditure of \$75,000 next year the roads of the county will be in as good condition as they can be when built of dirt.

**Wis., Shawano**—Sum of \$500 has been appropriated by the county to purchase grader and small tools after road school meet; Louis Rollman, highway commissioner, Shawano; sum of \$23,000 is available for macadam and graveling this year.

**Wis., Stevens Point**—The Portage county board of supervisors is in the market for \$3,500 worth of grading and road



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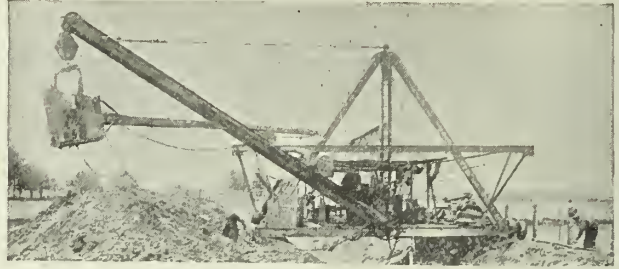
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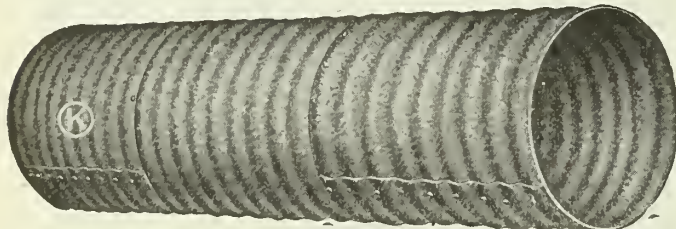
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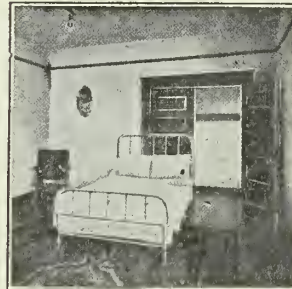
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machinery; Ben. Halverson, route 2, Amherst Junction, Wis., is in charge.

**Wis., Stoughton**—Eleven blocks of macadam paving will be ordered in the spring; John Icke, city engineer.

**Wis., Superior**—Surveyors have completed laying out the routes of Douglas county's portion of the Bayfield road running from Superior to Ashland, and also of the military road passing through the town of Superior to the Carleton county line; cost of the Bayfield road about \$20,000 and of the military road about \$9,000; Wm. J. Leader, county clerk.

**Wis., Superior**—City commission has instructed board of public works to prepare plans and specifications for paving Tower av. from 1st to 3d st.; this to be the first of a number of contracts to be let this spring.

**Wis., Waupaca**—Expected that 28,000 square yards of concrete or bituminous macadam paving will be contracted for in the spring; C. W. Nelson, city engineer.

**Wis., Waupaca**—Petition largely signed for permanent pavement on W. Fulton st.; also, for a 6-foot cement sidewalk and curb and also for a 5-foot walk only on north side of said street; address city clerk.

#### BIDS WANTED.

**Iowa, Clarinda**—Reported that bids will be received by T. A. Wilson, city clerk, about March 15, for paving Chestnut, Grant and Water sts., about 27,000 square yards, material to be concrete or asphalt concrete, and 19,794 feet of concrete curb; M. G. Hall, engineer, Centerville.

**Iowa, Manchester**—Bids received by T. Wilson, city clerk, until 2 p. m., Jan. 18, for about 10,000 square yards of paving; check for \$500.

**Minn., Ivanhoe**—Bids received by Karl A. Hansen, auditor, Lincoln county, until 1 p. m., Feb. 10, for jobs Nos. 1, 2 and 3, of state road No. 1, in towns of Royal and Marble, Lincoln county, requiring 40,000 cubic yards excavation, etc., 11,776 lineal feet of turnpiking, 44,600 lineal feet of construction dragging 800 lineal feet of 12-inch tile from 3-foot to 8-foot in depth, 19 plain concrete culverts and 7 reinforced culverts; check for 5 per cent.

**Wash., Chehalis**—Bids received by county clerk until Feb. 1, for one mile of concrete highway to cost \$15,000 and one mile to cost about \$17,000.

**Wash., Chehalis**—Bids received by county commissioners until Feb. 6, on paving unfinished portion of the Pacific highway between Chehalis and Centralia next summer; distance is over a mile. concrete paving will be about 18 feet, and cost is estimated at \$15,500. An additional mile is to be built next summer across Cowlitz prairie toward Chehalis; also, one mile and 600 feet will be added to the 16-foot paved concrete roadway southeast of Chehalis. The work will aggregate about \$22,000; bids to be opened early in February; address county clerk.

**Wis., Neenah**—Bids will be asked for on paving the bridges as soon as some preliminary questions are determined; address city clerk.

**Wis., Oconto**—Bids received by city clerk until Jan. 20, for graveling a portion of Main and Cook sts.

**Wis., Phillips**—W. H. Lippels, county clerk, is taking bids on a 15-ton, 30 h. p. traction engine for the county highway commissioner; the appropriation is \$3,000.

#### CONTRACTS AWARDED.

**Iowa, Manning**—Contract to C. L. Mosher, Sioux City, for paving in this city; contract includes 25,785 square yards paving and 9,521 lineal feet curbing, contract awarded at \$58,623; other bidders were: Ford Paving Co., Cedar Rapids; Bryant Asphalt & Paving Co., Waterloo, Iowa; H. C. Reinking Construction Co., Des Moines; J. S. McLaughlin & Co., Red Oak; Dearborn Construction Co., Waterloo, Iowa; Zitteral & Sullivan, Webster City; National Refrigerating Co., Omaha, Neb.; Jas. Harrabin & Co., Des Moines; Shugart & Munsen, Nevada, Iowa.

**Kan., Coffeyville**—Contract to Lester Hudson, city, for cut and fill work on Coffeyville-Caney road, etc., in Montgomery county at 25c for dirt work and \$1.10 for rock; other bidders were: N. E. Bouton, Cherryvale; Howard Bros., Cherryvale, and Ben Stocker, Dearing.

**Mich., Escanaba**—Contract to Bichler Bros., R. F. D., Gladstone, Mich., for grading, ditching and macadamizing Manistique trunk road.

**N. D., Minot**—Contract to J. J. McDougal, city, for grading and improving 6th st. at \$988.

**N. D., Minot**—Contract to Benjamin McDonell, city, for graveling Park road at \$1,219; J. J. McDougall, city, bid \$1,380.

**Wash., Seattle**—Contract to Hansen & Co. for planking on 37th av. S., at \$1,702, and to Elliott Construction Co. for laying reemac paving on Shoreland Drive at \$6,673.

**Wash., Seattle**—Contract to W. W. Wilcox for the improvement of 14th av. S., at \$30,000; improvement is for 4½ miles,

and will consist of grading, graveling and building a wooden bridge 250 feet long; work to be completed by August 1.

**Wis., Lancaster**—Contract to Raven Construction Co., Colfax, Wis., for excavating and grading 11,000 cubic yards for the approaches to the new Eagle Point bridge, town of Jamestown, at \$4,000.

### DRAINAGE AND IRRIGATION

**Iowa, Fort Dodge**—Hearing Feb. 2, on proposed drainage systems No. 189 and 197, \$58,000 and \$50,000; G. Smith, county engineer.

**Iowa, Mason City**—Plans in progress by Keerl & Stevens, 219 N. Main st., for two drainage systems.

**Iowa, Sioux City**—Cost of closed conduit for Perry Creek from Missouri river to 14th st., estimated at \$560,000; plans in progress; address city engineer.

**\*Minn., Ada**—Contract awarded to Union Drainage Co., Stevens, Minn., for excavating main ditch 52, and laterals, 9c per yard, bridges to Security Bridge Co., Minneapolis; concrete culverts, W. P. Hussey, Crookston.

**Minn., Aitkin**—Hearing Feb. 10, on viewers' report, county ditch 30; net benefits \$19,467; J. B. Lemire, county auditor.

**Minn., Crookston**—Date for hearing on petition for ditches east of Roseau and north of Salol probably will be fixed by Judge Watts, Crookston, for some time next month.

**Minn., Fairmont**—Hearing Jan. 16, on proposed judicial ditch 51; A. R. Flygare, clerk, district court.

**Minn., Litchfield**—Land owners have started movement for drainage ditch starting at outlet of Lake Karonis, and extending to a point near Manannah village, following general line of Crow river; several branches, concrete dam.

**Minn., St. Cloud**—Farmers near Melrose have started movement for new ditch called county ditch 24; W. F. Donahue, attorney, Melrose, represents petitioners.

**Minn., St. Cloud**—County board approved petition for county ditch 34, Sauk River to Melrose.

**Minn., Warroad**—Survey of Roseau river from Lake to Duxby, has been ordered by state commission and State Engineer Willard will complete the work soon; Paul Marschall Warroad, member of legislature, will ask appropriation to continue work of dredging.

**Neb., Sidney**—The Lodgepole Valley Irrigation Association elected officers: A. G. Neumann, Chappell, president; Chas. High, Potter, first vice president; Fred. Lehmkuhl, Lodgepole, second vice president; R. A. Blake, Sidney, secretary and H. T. Doran, Sidney, treasurer.

**S. D., Belle Fourche**—Another irrigation project is under consideration by Belle Fourche Water Users' Association; to be tributary to Belle Fourche and furnish more water for the Johnson lateral; diversion dam suggested; project approved by directors of the Belle Fourche Club.

#### BIDS WANTED.

**Iowa, Clarion**—Sealed bids will be received at the office of the county auditor, Wright county, at Clarion until 2 p. m., Jan. 19, for the construction of drain No. 115 located in sections 18 and 19, Blaine township at which time the contract will be awarded to the lowest responsible bidder or bidders for the material and labor necessary for the construction of the drain according to the plat, profile, plans and specifications at the county auditor's office; 10 per cent of amount of bids in cash or certified check must accompany each bid; bids must be by sections and be submitted, received and acted upon separately; F. E. Osier, county auditor.

**Iowa, Clarion**—Sealed bids will be received up to 2 p. m., Jan. 19, for the construction of drain No. 112, located in sections 21, 22, 23, 27 and 28, Blaine township, at which time the contract will be awarded to the lowest bidder or bidders for the material and labor necessary for the construction of said drain according to the plat, profile, plans and specifications all at the county auditor's office; ten per cent of amount of bids in cash or certified check must accompany the same; bids must be by sections and be submitted, received and acted upon separately as to main and laterals; F. E. Osier, county auditor.

**Minn., St. James**—Bids received until Jan. 12, for judicial ditch, No. 8, until 2 p. m.; J. Jensen, auditor, Watonwan county.

#### CONTRACTS AWARDED.

**Iowa, Marengo**—Contract let for joint drain No. 3 in drainage district No. 3, Iowa county and No. 1, Benton county; Byron Golthwaite, engineer, Marengo, to B. W. Abbott, Iowa City, Iowa, \$5,062.50; other bidders were: C. E. Elzy, Nevada, Iowa, \$5,175; R. C. Bush, Iowa City, Iowa, \$5,625.

**Neb., Lexington**—Contract let to Harry F. Smith for ditch on county line between Gosper and Cooper counties.





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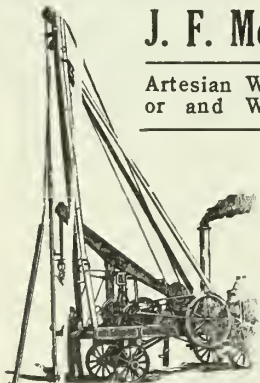
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## WATER WORKS

**Iowa, Lynn Grove**—Proposition is being discussed for new water works system.

**Iowa, Muscatine**—Muscatine local water works company plans to install 500 meters during coming year.

**Minn., Two Harbors**—Work will begin at once on the new hypochlorite plant, under supervision of street commissioner and engineer of water and light plant.

**Minn., Virginia**—Ground is being cleared for erection of new septic tank.

**Minn., Wahpeton**—City will sink several wells for water works system, purchase of a 21 man power pump with 500 feet 2-inch hose, contemplated; one well being sunk.

**Minn., Willmar**—Requisitions for supplies from water and light commission were presented and clerk on motion, instructed to order same.

**Mont., Cut Bank**—Town has sold \$29,000 bonds for water works system and laying extension of water mains; S. L. Potter, mayor.

**Mont., Shelby**—The Grand Trunk Pacific has put up \$100,000 to drill a well in the Sweetgrass district.

**Neb., Holdrege**—Plans have been completed and submitted by Chas. F. Sturdevant, civil engineer, for installation of the proposed new water works system, at Broken Bow, Neb.

**Neb., Norfolk**—City engineer has been instructed to draw up plans for an 8-inch water main to connect new water station with 8-inch main on Basewalk av. and 1st st.

**S. D., Deadwood**—City Engineer F. S. Peck has submitted an estimate of the cost of the construction of proposed city water system whereby the city is to secure a supply of water in the Strawberry Gulch district and pipe to Deadwood.

**S. D., Sioux Falls**—Steps have been taken to increase the supply of water for the municipal water works system at Winner, S. D.

**Wis., Marinette**—The Wolf River Improvement Co. plans to resume work on the big storage reservoir at Post Lake, in the spring; plans call for two reservoirs, a dam 26 feet high.

### BIDS WANTED.

**Mont., Harlowtown**—Bids received until Jan. 21, 8 p. m., for water works extension coupon bonds, in sum of \$15,000; S. K. Campbell, clerk.

**Wyo., Baggs**—Bids will be received until Feb. 2, 7 p. m., for sale of \$3,000 water bonds; Geo. A. Deaton, township clerk.

### CONTRACTS AWARDED.

**Iowa, Cumberland**—Contract awarded to E. J. Heckel of Kansas City for water works system.

**Wash., Warden**—Contract awarded to the Municipal Equipment Co., 501 Railroad av., Spokane, Wash., for water works system, at \$3,570; other bid was the Security Bridge Co.; Lewistown, Mont., at \$3,795.

**Wis., Delavan**—Contract awarded to W. C. Kiernan & Co. of Whitewater, for building cement reservoir and well at state school.

**Wis., Milwaukee**—The National Enameling & Stamping Co., Milwaukee, have awarded the contract for boring a 2,500-foot Gray Jr., consulting engineer, 630 M & M Bank building, artesian well, 12-inch top and 6-inch bottom diameter, for new private water works system, costing \$12,500, to F. M. Milwaukee; same engineer has contract for boring a 1,400-foot well, 12-inch top and 8-inch bottom diameter at Edgewood Farms, owned by F. A. W. Kieckhefer, president of National Enameling & Stamping Co.

**Wis., Oconomowoc**—Contract awarded to R. Mierswa & Son of Oshkosh, Wis., for 1,200 feet cast iron water mains, 8-inch; C. J. Schoenike, city clerk.

## SEWER WORK

**Iowa, Des Moines**—State board of agriculture has employed an engineer to plan sewer system for state fair grounds; must be submitted to state legislature; address secretary state fair board.

**Iowa, Des Moines**—State board of health considering a recommendation to the state legislature requiring cities and towns of the state now emptying sewage into rivers and creeks to be given a certain time to abate the nuisance by putting in septic tanks; Lafayette Higgins, sanitary engineer for the board, states all new systems must use septic tanks, but that there are over ten cities and towns now offending in this respect.

**Iowa, Dubuque**—Plans being prepared for 8 to 10-inch vitri-

fied pipe sewer in Reed st., and 8 to 15-inch vitrified pipe sewer in Grand View av.; E. C. Blake, city engineer.

**Iowa, Dubuque**—City engineer will make surveys and prepare plans for proposed sanitary sewer in that section of city west of Grandview av. and south of Delhi st.; will require special appropriation of several thousand dollars, and council may not grant it; address city clerk.

**Iowa, Keokuk**—Plans will probably be started in the early spring for a storm sewer in West Keokuk; approximate cost \$60,000.

**Iowa, Onawa**—Bruce & Standeven, Bee building, Omaha, Neb., have been appointed engineers for proposed sewer system here.

**Iowa, Sioux City**—Plans under way for construction of closed conduit for Perry creek from Missouri river to 14th st.; approximately cost \$560,000; address city clerk.

**Kan., Emporia**—Fred H. Smith, city engineer, instructed to prepare plans and specifications for sewers in northeast and southeast portions of the city.

**Minn., St. Paul**—Preliminary orders passed for sewer on west side of Lexington av., between Blair and Van Buren sts. Aug. Hohenstein, city purchasing agent.

**Minn., St. Paul**—Council will consider order for Frederica av. sewer, estimated to cost \$47,000; \$2.70 a front foot; Aug. Hohenstein, city purchasing agent.

**Minn., Virginia**—Michael Boylan, mayor, will recommend to the city council that storm and sanitary sewers be put in the alleys on both sides of Chestnut st. The new sewers will be connected with the big 6-foot sewer, recently completed.

**Mont., Billings**—Petition received by council for a sewer between 37th and S. 38th sts., completing the system in the southwestern portion of the city; estimated cost \$2,850; address city clerk.

**Neb., Norfolk**—City engineer instructed to prepare plans and specifications for storm sewer to take water from Norfolk av. and 7th st. down 7th st. to Madison av., to Northfork river; address city clerk.

**Neb., Benson**—Resolution adopted by citizens favoring one sewer district for entire city; address city clerk.

**Neb., Omaha**—Watson Townsend, city engineer, states that \$1,000,000 is necessary to bring Omaha's storm and sanitary sewers up to the demands of the community. A bill authorizing the issuance of \$1,000,000 in bonds for this purpose, \$250,000 a year for 4 years, is to be introduced in the current legislature. If it passes the city will be able to do the big jobs most urgently demanded.

**Okla., Chelsea**—Citizens have voted \$30,000 for sanitary sewer system; address city clerk.

**Wash., Anacortes**—Council has ordered lateral sewers in 12th and 13th sts.; address city clerk.

**Wis., Baraboo**—Storm sewer ½-mile long will be taken up in spring; 36 to 48-inch reinforced concrete; H. E. French, city engineer.

**Wis., Beaver Dam**—City council has authorized board of public works to secure plans and engineer's estimate on a sewer on College st., University pl., Davis st. and S. Spring st., at earliest date possible; would be the largest sewer ever undertaken in the city, and expected to be costly; address city clerk.

**Wis., De Pere**—H. R. Alberts, city engineer, has submitted estimates on construction of a new sewer from the Chicago & North Western right-of-way to the river; committee of three will probably be appointed by mayor to consider the matter.

**Wis., Oshkosh**—Hearing Jan. 30, on proposed sewer district in 12th ward; plans prepared; R. A. Hollister, chairman, board public works.

**Wis., Sheboygan**—Resolution to lay proposed sewers referred to committee on first sewer district; 440 feet 15-inch double strength vitrified pipe on Lincoln av. and 300 feet 10-inch pipe on N. 4th st.; 3 manholes; C. U. Boley, city engineer.

**Wis., Superior**—City commission has authorized construction of a main sewer on Winter st. at the gas plant; approximate cost \$10,000; address city clerk.

### BIDS WANTED.

**Iowa, Mason City**—Announced bids will be received in February (date not yet fixed), for main and lateral sewers; 42,000 feet 8 to 15-inch, costing \$80,000; P. P. Wilson, city engineer.

**Kans., Valley Falls**—Bids received by Geo. Herman, city clerk, until 2 p. m., Feb. 1, for lateral sewers in city and main sewers inside and outside city and a sewage disposal plant; check for \$500; Worley & Black, engineers, Reliance building, Kansas City, Mo.; plans on deposit of \$5.

**Minn., Dumont**—Bids received by J. W. Heidelberger, village recorder, until 8 p. m., Feb. 28, for construction of about 1,400 feet of sewers; check for 10 per cent.

**S. D., Mitchell**—Bids received by Thos. Eastcott, city audi-



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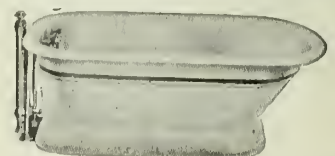


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tor, until 8 p. m., Feb. 1, for lateral sewers, 1,984 feet 12-inch pipe and 6 manholes, and 1,108 feet of 15-inch pipe, and 95 feet 12-inch pipe and 1,876 feet 10-inch pipe; check 5 per cent; officially advertised in this issue of the Improvement Bulletin.

**Wash., Puget Sound**—Bids received by Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 a. m., Jan. 26, to furnish at the navy yard, Puget Sound, terra cotta sewer pipe; for blank proposals for schedule 7752 apply to navy pay office, Seattle, or to the bureau; Samuel McGowan, paymaster general, U. S. N., Washington.

#### CONTRACTS AWARDED.

**Kan., Emporia**—Contract to Cameron & Joyce, Keokuk, Iowa, for construction of sewer system for Santa Fe R. R. Co. at shop, roundhouse and station.

### BRIDGES

**Alta., Medicine Hat**—The C. N. P. has prepared plans for a bridge across the Saskatchewan river here which they propose to erect soon.

**Iowa, Audubon**—Bids received until Jan. 15, 1 p. m., for bridge, lumber, piling, spikes, paint and bolts, by board of supervisors of Audubon county; C. D. Forsbeck, county engineer; H. A. Northup, county auditor.

**Iowa, Mason City**—It is planned by this county (Cerro Gordo) to build 15 bridges this coming year, bridge over Calamus creek, 30-foot roadway, with 6-foot sidewalk on each side, built strong enough for street cars; bridge of same size will be built over Schmidt creek, four other large bridges will be built on same stream; Geo. E. Frost, county auditor.

**Iowa, Muscatine**—City council has approved construction of \$500,000 bridge over Mississippi river, by the Inter-State Bridge & Terminal Co., of city.

**Kans., Wichita**—County commissioners accepted reports of board of appraisers for bridge over Big Arkansas river, in Riverside township; cost, \$3,500. E. V. Moore, county engineer; pile structure.

**Minn., Duluth**—Ordinance passed appropriating sum of \$500 for extension of a culvert across Grand av., near Gogebie st., W. I. Prince, mayor.

**Neb., Ayr**—County commissioners have voted to construct a bridge, 250 feet long over Blue river, south of here.

**N. D., Judd**—Bids were received until Jan. 8, 2 p. m., for replanking of three bridges as follows: section line between sections 22 and 23, township 133, regulation 1, planks, 3x12, fir or Norway pine, 12-foot bridge 69 lineal feet; section line 1, between 1 and 12, township 133, planks 3x12, fir or Norway pine, 12-foot, 92-foot bridge; section line between 4 and 9, township 134, planks 3x12, fir or Norway pine, 12-foot, bridge 96-foot; O. C. Temple, county auditor, Lamoure county.

**Okla., Ada**—A bill is before congress for permission to build a wagon bridge over Canadian river; between Seminole and Pontotoc counties; cost about \$98,000.

**S. D., Clear Lake**—All bids were rejected on steel and concrete bridges; L. Larson, county auditor.

**Texas, Smithville**—Wagon bridge will be erected over Colorado river by city, \$50,000 bonds sold, contract will probably be awarded before spring.

**Wis., La Crosse**—County board of supervisors has voted to build a 400-foot steel highway bridge on concrete abutments, over Black river near Campbell, La Crosse county. Plans prepared by M. W. Torkelson, bridge engineer, state highway commissioner, Madison; B. A. Jolwette, county clerk.

**Wis., La Crosse**—The Rusk county highway commissioner awarded contract for 5-span, steel highway bridge over Chippewa river at Beldenville, to Wausau Iron Works, Wisconsin, at \$9,769; 351 feet long.

**Wis., Superior**—Board of public works are asking for bids on repairing of Lamborn bridge; bids taken on raising, blocking, lowering of bridge; bids taken Jan. 11, 1 p. m., for work; check 5 per cent; W. R. Russell, chairman of board.

#### BIDS WANTED.

**Colo., Pueblo**—Bids received until Jan. 18, for steel bridge at E. 1st st., 50-foot spans, width 45 feet, on caisson foundation; cost \$4,000; D. P. Gaynon, city engineer.

**Iowa, Waterloo**—Board of supervisors will meet Jan. 20, to receive bids for bridges and supplies for 1915; bids will be received on 14 bridges in Blackhawk county, at cost of \$950; largest bridge on section 15, cost about \$5,825; estimated cost of 15 bridges \$33,778.

**Minn., Ivanhoe**—Bids will be received until 1 p. m., Feb. 10, for building state bridge No. 1275, state road No. 1, town of Royal, Lincoln county; 30-foot span, 30-foot roadway, on reinforced concrete foundation, about 14 feet; plans at office of county auditor, Karl A. Hensen; check 5 per cent; officially advertised in the Improvement Bulletin this week.

**Minn., St. Paul**—Bids received until 10 a. m., Jan. 25, for 200,000 feet of lumber for bridge repair work by Aug. Hohenstein, city purchasing agent, St. Paul. Check for 10 per cent.

**Mont., Townsend**—A special meeting will be held Jan. 25 for purpose of accepting plans for bridges and advertisements for bids for same; Hugh Broderick, chairman of board of county commissioners.

**Wis., Chippewa Falls**—Bids received until 2 p. m., Feb. 8, for following items of bridge work: (1) a creosoted wood block, floor with sub-floor of planking, on the Chippewa river bridge, approximately 2,200 feet floor space; (2) complete repair and overhauling of bridge; (3) scraping and painting bridge; check 5 per cent; plans at office of clerk; J. A. Brooks, J. R. Murphy, A. T. Thompson, board of public works.

**Wis., Racine**—Bids will be called for March 15, for steel bridge on concrete abutments to be located at Mt. Pleasant, Racine county; James Mutter, highway commissioner.

#### CONTRACTS AWARDED.

**Minn., Ada**—Contracts awarded as follows for twenty-seven bridges: Ten large and thirty small culverts over ditch No. 52, Security Bridge Co., Minneapolis, steel bridges at \$1,175 each; M. R. Hussey, Crookston, Minn., concrete culverts at \$3,336 each; Illinois Steel Bridge Co., St. Paul, Minn., at \$1.40 for 24-foot and \$1.20 for 18-foot. C. D. Simpson, deputy.

**Minn., Bemidji**—Contract awarded to Klauer Manufacturing Co. of Dubuque, for furnishing culverts for judicial ditch No. 21, at \$4,580; J. L. George, county auditor.

**Neb., David City**—Contract awarded to the Nebraska Construction Co. for bridges during 1915 in Butler county.

**Okla., Buffalo**—Contract awarded to the Canton Bridge Co. for erection of 6 bridges.

**Okla., Pond Creek**—A steel span bridge will be constructed by county; contract awarded to Vincennes Bridge Co., Vincennes, Ind.; Thos. Harville, county clerk.

**Texas, Beaumont**—Contract was awarded to the Spence & Howe Construction Co., Port Arthur, Tex., for bridge over Taylor's Bayou, at Cill Crossing, wood and steel; cost \$1,493.

**Tex., Beeville**—Contract awarded to Austin Bros. of Dallas, at \$3,950 for 3-span bridge, steel over Toro Creek; also contract awarded to Bailey Mills, Victoria, Tex., for concrete bridge over San Domingo creek, near Normanna, Bee county.

**Wis., Beldenville**—Contract awarded to the Wausau Iron Works for erection of the 4-pier, 5-span, steel and concrete bridge over Chippewa river here, at \$9,769.

**Wis., Bradley**—Contract awarded to J. W. Kelley of city for erection of a bridge across Little Rice; one I-beam span, 32 feet long, with concrete abutments and floors on piling, at \$1,096.

**Wis., Tripoli**—Contract awarded to the Wausau Iron Works, of Wausau, Wis., for bridge on county line road; one I-beam span, 26 feet long, with concrete floors and abutments, at \$541.

### GARAGES AND BARNs

**Minn., Wells**—A modern garage will be erected here by H. J. Bishner; fireproof.

**Mont., Fromberg**—Fire destroyed the livery barn of J. P. Madsen.

**S. D., Iroquois**—J. W. Owens plans to build a completed set of buildings on his farm soon.

**Wis., Antigo**—The Van Doren Motor Car Co. will erect a modern garage, 1-story, with 10-foot basement, 58x72, brick and concrete, entire building covered with galvanized iron roof, an 8x16 elevator.

**Wis., Richfield**—Henry Loft is making plans for erection of a modern barn in the spring, 80x40, concrete basement, contract let to Mr. Schuster.

President Cameron of the St. Paul Builders' Exchange, has appointed the following committee to take charge of arrangements for the annual dinner of the exchange: J. C. Corning, chairman, Wm. Burns, Wm. Rhodes, K. P. Grant, W. J. Gross, Chas. E. Villanne, R. D. Turpen, W. B. Seeger, H. T. Cameron. We believe that we can safely predict that the annual dinner of the Builders' Exchange for 1915 will be up to the usual standard, as the committee above referred to knows how to do things and will make the event one that will be remembered.—Exchange's weekly letter.



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## STATE ROAD WORK IN MINNESOTA.

work of the department. The state engineer has two deputies, one in charge of roads and one in charge of bridges, and 93 assistant engineers, of which 83 are assigned to road work and ten to bridge work. The road engineers are located at the county seats of the several counties, with division engineers to examine and supervise their work, and the bridge engineers work out from the central office at the capitol.

I notice that this report is expected to touch upon the problems encountered, but in that respect I presume that we have about the same to contend with as our neighboring states.

With regard to construction, I believe our most serious problem has been to secure competent and experienced superintendents and foremen on the road work. This applies both to force account and contract work, and while we have trained a large number of them this season who will be available for next year's work the cost has been taken out of the construction and the engineers have had difficulty in getting properly finished work.

## THE GREAT PROBLEM IS MAINTENANCE.

The great problem in highway engineering today is maintenance, and while Minnesota has taken the front rank in providing for same, by setting aside an adequate state aid maintenance fund and in levying a compulsory one mill dragging tax there are some things necessary to be done to prevent an excessive maintenance charge. First among these is of course, substantial construction; then proper regulations for use of the roads. The greatest damage to our gravel and macadam roads is caused by the excessive and unnecessary speed of motor cars. Laws are enacted placing the limit at 25 miles per hour, to which no one pays any attention, but a greater rate of speed than that not only destroys the road surface, but is dangerous to other road users. Imprisonment should be the only penalty for violators of the speed laws and each road foreman and patrol should be given authority to make arrests. It has been suggested that the evil might be remedied by laying a road profile with "dips" or "breaks" in the line at frequent intervals, which would be uncomfortable for machines going at a greater speed than 20 or 25 miles per hour. Something along that line may have to be done to curb reckless driving. Other sources of damage are the studded tractor wheel and heavy loading of narrow tires. It will be necessary to place a limit on the weight per inch of wheel load and to require that lugs or projections when necessary on wheels of tractors be only placed in a manner approved by the state engineer.

A problem which has engaged considerable of our attention of late is the elimination of railroad grade crossings, and making less dangerous those which must be maintained. With the great increase in the use of automobiles has come a slaughter on grade crossings which is largely preventable. Many crossings can be avoided by the construction of additional road, but when impossible to avoid the crossings and impracticable to construct an overhead or underground crossing, conditions can usually be improved upon by a change in alignment to require a perpendicular crossing of roadway, with grading out of intercepting banks and clearing of trees and brush to give a clear sight of the railroad at a safe distance from same.

Although there are many other minor problems confronting us at the present time, we find general conditions very satisfactory and expect that next year will show even greater advancement for many of the counties have already requested state participation on greatly increased amounts of work.

## GOOD YEAR FOR ST. CLOUD AND GRANITE.

St. Cloud, Minn., was shown to have fine prosperity for 1915 by speakers at the Meeting of the Northwestern Granite Manufacturers' Association there. Immediate improvements on the St. Cloud dam, the building of a dam at Sauk Rapids and increased power facilities within a short time were the hopes held out by A. G. Whitney of the Public Service Co., who spoke on "Power." Fourteen thousand h. p. of water-power and 4,000 h. p. in reserve steam power was his prediction of the energy that would soon be at the disposal of St. Cloud industries. Facts regarding the St. Cloud granite and its superiority as a building stone were contained in a talk by Roland C. Buckley. Geo. Bestor, a recent arrival in the St. Cloud granite field, urged co-operation rather than consolidation. "Despite the business depression for five months of this year, when factories were retrenching, railroad extensions at a standstill and the big steel mills shut down, the granite industry in St. Cloud has exceeded in its total production the prosperous year of 1913," said Toastmaster

W. J. Holes, in commenting on the report. The report also showed that 2,445 people were directly supported by the granite industry in 1914, as against 2,421 in 1913; that in 1914, 1,147,000 paving blocks were shipped with a value of \$90,000, an increase of \$10,000 over 1913; that the building work shipped in 1914 amounted to \$140,000, a decrease of \$35,000 from the figures for 1913; that the monumental work shipped in 1914 was valued at \$785,415, an increase over 1913 of \$31,077.

## LINOLEUM WEARS WELL.

Almost any contractor will tell you that he had linoleum on his kitchen floor for eight or ten years and that it shows not much signs of wear. Then comes the architect who states that he had a piece of linoleum in his residence for seventeen years and that he relaid it in his new home when he moved into it. Not to be outdone, the librarian of the city of Minneapolis, Miss Gratia Countryman, affirms that she recently replaced linoleum which had been in constant use in the librarian's office for twenty-five years and that it was not of the thickness of battleship at that. So that it is not too much to expect that some pieces that are exceptionally well laid and cared for will last a generation.

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## CAPITOL BUILDING AND GROUNDS.

Repairs and improvements.....	\$5,000
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## NEGLECTING THE BRIDGES.

Comment has already been made in the pages of this journal on the campaign waged by the "Service Bulletin" of the Iowa Highway commission to lessen accidents at grade crossings and to eliminate weak, and therefore dangerous, bridges. Exceptionally pointed treatment of these subjects is found in a recent issue. A series of descriptions of the accidents responsible for twenty-one road fatalities is prefaced by a strongly worded appeal from the commission, asking a saner use of the roads, the while safe bridges and culverts are being built and dangerous grades, curves and crossings eliminated. There is a lesson in the conditions disclosed, not alone for Iowa but for other communities. Many states have a large number of interior bridges, both wood and steel, on highways now being resurfaced. It is natural to postpone the expenditure necessary to replace them adequately, until the new surfacing, more prominent evidence of administrative activity, is completed. Frequent accidents such as those in Iowa prove the need for taking radical steps to change this policy. From the point of view of safety alone it would be wise to improve no road until every bridge on it was put in proper condition, for smooth, metaled roadways and weak, poorly maintained bridges form a dangerous combination. Where a commission has little control over bridges the condition is of course even more serious. It need not be said that the course suggested would not be practicable in every instance, but it should serve as an ideal for road officials charged with the responsibility of providing safe traffic arteries for large populations.—Engineering Record.





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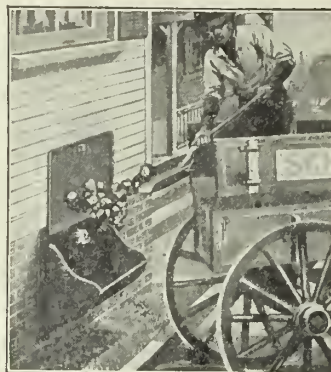
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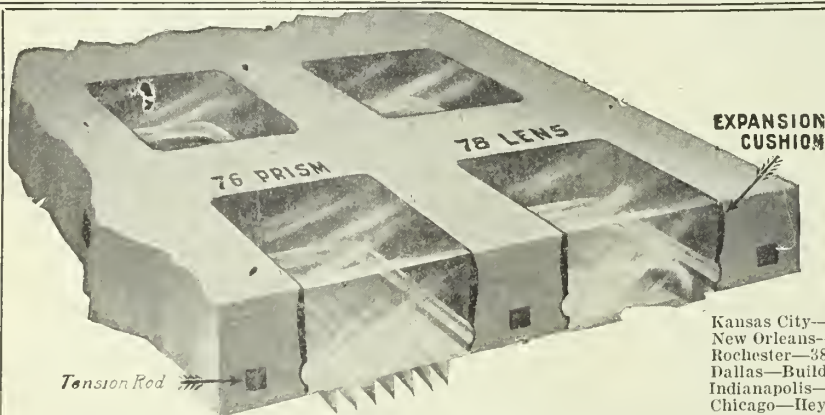


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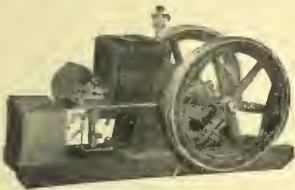
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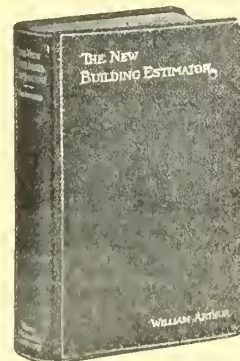
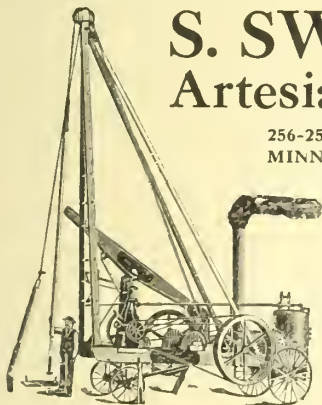
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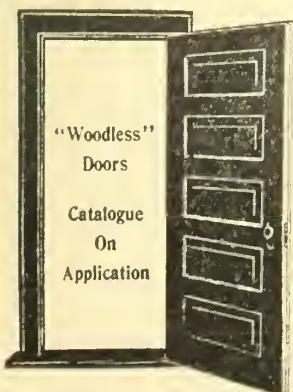
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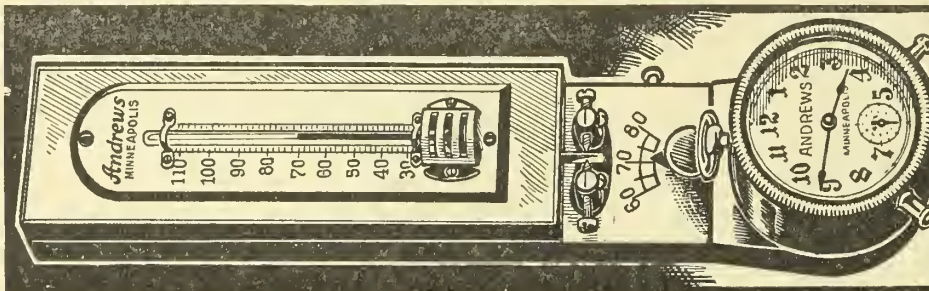
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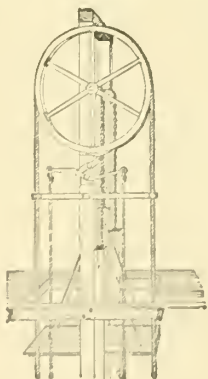
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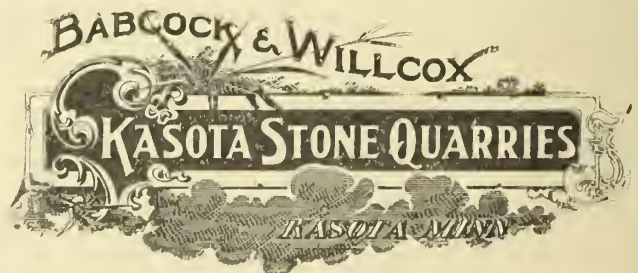
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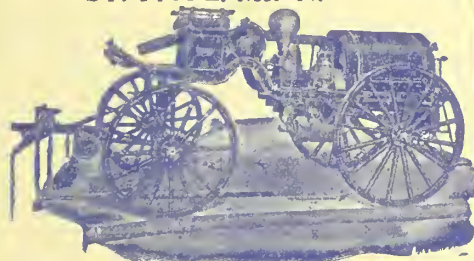
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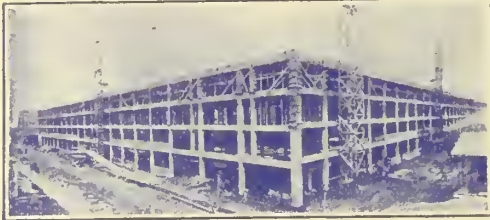
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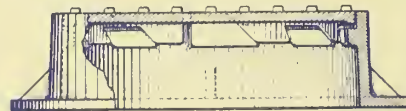
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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., January 23, 1915.

Number 8

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Daily Advance Construction Reports, \$5.00 a month, \$50.00 a year, in advance.

### ADVERTISEMENTS.

For less than three pages in a year, \$25.00 a page. One page weekly, 52 pages a year, \$22.50 per page. Half page weekly, \$52.65 per month. Quarter page weekly, \$24.00 per month. Eighth page weekly, \$13.00 per month. New advertisements received up to Thursday noon the week of issue.

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M. J. Grady Fixture Mfg., Minneapolis.....	50	North Star Varnish Co., Minneapolis.....	60	Widell Co., Mankato, Minn.....	56
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Advs. marked \* appear every other week.

Advs. marked † appear in the 1st issue of the month

Advs. marked ‡ not in this issue



# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

## ARCHITECTURAL MODELING.

Hydraulic Press Brick Co., Minneapolis, Minn.

A. F. Lott & Co., Mpls. and St. Paul, Minn.

## ARCHITECTS' SUPPLIES.

Minneapolis Blue Ptg. Co., Mpls., Minn.

ASBESTOS AND MAGNESIA PRODUCTS.

Haakinson & Beatty Co., Sioux City, Iowa

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co., Duluth, Minn.

W. S. Nott Company, Minneapolis, Minn.

## ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.

E. Swenson Artesian Well Co., Minneapolis, Minn.

## BANKS.

Northwestern National Bk., Mpls., Minn.

## BANK AND STORE FIXTURES.

H. W. Johns-Manville Co., Minneapolis

A. Moorman & Co., St. Paul, Minn.

Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

## BOILERS.

Andrews Heating Co., Minneapolis, Minn.

Associate Mfrs. Supply Co., Mpls., Minn.

Crane & Ordway Co., St. Paul, Minn.

Hassey Heating Co., Minneapolis, Minn.

Mechanical Specialty Co., Minneapolis, Minn.

## BONDS-SURF.

Hood & Matschke Co., Minneapolis, Minn.

Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.

## BRASS GOODS.

National Mfg. & Supply Co., Mpls., Minn.

## BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.

Belt Line Brick Co., Minneapolis, Minn.

Boone Brick, Tile & Paving Co., Boone, Ia.

Chaaska Brick & Tile Co., St. Paul, Minn.

Dickinson Brick Co., Dickinson, N. D.

Excelsior Brick Co., Menomonie, Wis.

Flint Brick Co., Des Moines, Ia.

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Hebron Fire & Pressed Brick Co., Hebron, N. D.

Hydraulic Press Brk. Co., Minneapolis, Minn.

Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.

Lehigh Sewer Pipe & Tile Co., Fort Dodge, Iowa

Mason City Brick & Tile Co., Mason City, Ia.

Rufus P. Morton, Princeton, Minn.

National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.

Northwestern Fireproofing Co., Mpls., Minn.

A. C. Ochs Brick & Tile Co., Springfield, Minn.

Red River Valley Brick Corporation, Grand Forks, N. D.

Shakopee Cement Lime Co., St. Paul, Minn.

Shevlin-Carpenter Lumber Co., Minneapolis

Sloux City Brick & Tile Works, Sioux City, Ia.

Standard Salt & Cement Co., Duluth, Minn.

St. Paul Lime & Cement Co., St. Paul, Minn.

Twin City Brick Co., St. Paul-Mpls., Minn.

## BRIDGES.

American Bridge Co., Minneapolis, Minn.

Clinton Bridge Works, Clinton, Ia.

Corrugated Bar Co., St. Paul, Minn.

Crown Iron Works Co., Minneapolis

Minneapolis Steel & Mach. Co., Mpls., Minn.

Haakinson & Beatty Co., Sioux City, Iowa

N. W. Concrete Steel Co., Minneapolis, Minn.

St. Paul Foundry Co., St. Paul, Minn.

## BUCKETS-CONTRACTORS'.

H. B. Jones, Security Bank, Minneapolis

G. E. Ingersoll & Co., St. Paul, Minn.

## BUILDING MATERIAL.

Baxter Sash & Door Co., Duluth, Minn.

Blesanz Stone Co., Winona, Minn.

Carr-Cullen Co., Minneapolis, Minn.

Dunlop-Moore Co., Duluth, Minn.

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

Landers-Morrison-Christensen Co., Minneapolis, Minn.

W. S. Nott Company, Minneapolis, Minn.

Osgood & Blodgett Mfg. Co., St. Paul

Scott-Graff Lumber Co., Duluth, Minn.

Shakopee Cement Lime Co., St. Paul, Minn.

Shevlin-Carpenter Lumber Co., Minneapolis

The Northwestern Lime Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

## BUILDERS' SPECIALTIES.

Dunlop-Moore Co., Duluth, Minn.

Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.

Paine & Nixon Co., Duluth, Minn.

Standard Salt & Cement Co., Duluth, Minn.

G. A. Turner, Minneapolis, Minn.

## CALKING PASTE.

Minnesota Weatherproof Calking & Glaz-

ing Co., Minneapolis, Minn.

W. S. Nott Company, Minneapolis, Minn.

## CEMENT.

Atlas Portland Cement Co., Minneapolis

Carnay's Cement Works, Mankato, Minn.

Fowler & Pav., Mpls. and Mankato, Minn.

General Western Material Co., Waterloo, Ia.

Hydraulic Press Brick Co., Minneapolis, Minn.

Iowa Portland Cement Co., Des Moines, Iowa

Landers-Morrison-Christensen Co., Minneapolis, Minn.

N. W. Johns-Manville Co., Minneapolis, Minn.

N. W. States Portland Cement Co., Mason City, Iowa

Shakopee Cement Lime Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Seakies Lime & Cement Co., Superior, Wis.

Shevlin-Carpenter Lumber Co., Minneapolis

St. Paul Lime & Cement Co., St. Paul, Minn.

Universal Portland Cement Co., Minneapolis

## CELLS, STEEL.

Crown Iron Works Co., Minneapolis

Minneapolis Steel & Mach. Co., Mpls., Minn.

St. Paul Foundry Co., St. Paul, Minn.

## CEILING, STEEL.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Berger Mfg. Co., Minneapolis, Minn.

Canton Steel Ceiling Co., Minneapolis, Minn.

Haakinson & Beatty Co., Sioux City, Iowa

H. W. Johns-Manville Co., Minneapolis

H. C. Thomas & Bro., La Crosse, Wis.

## CEMENT FILLER.

Hydraulic Press Brick Co., Minneapolis, Minn.

W. S. Nott Company, Minneapolis, Minn.

Standard Salt & Cement Co., Duluth, Minn.

## COAL CHUTES.

American Bridge Co., Minneapolis, Minn.

Avery Steel & Iron Co., Minneapolis

Crown Iron Works Co., Minneapolis

Enterprise Iron Works, Albert Lea, Minn.

Gardner Hardware Co., Minneapolis

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Interstate Mfg. Co., Oskaloosa, Ia.

Majestic Furnace & Fdy. Co., Mpls., Minn.

Northern Insulating Co., St. Paul

Standard Salt & Cement Co., Duluth, Minn.

St. Paul Foundry Co., St. Paul, Minn.

## COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company, Minneapolis, Minn.

## CONCRETE CONSTRUCTION.

Avery Steel & Iron Co., Minneapolis

Corrugated Bar Co., St. Paul, Minn.

C. A. P. Turner, Minneapolis, Minn.

## CONTRACTORS LEVELS AND SUPPLIES.

David White Co., Milwaukee, Wis.

## CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.

Badger Concrete Mixer Co., Milwaukee, Wis.

Braustad Concrete Mach. Co., Canton, S. D.

Cement Tile Machinery Co., Waterloo, Ia.

Contractors Machinery Co., Keokuk, Iowa

G. E. Ingersoll & Co., St. Paul, Minn.

Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.

N. W. Concrete Steel Co., Minneapolis

N. W. Steel & Iron Works, Eau Claire, Wis.

Standard Salt & Cement Co., Duluth, Minn.

Milwaukee Concrete Mixer Co., Milwaukee, Wis.

Waterloo Cement Machinery Co., Waterloo, Iowa

Ellis Woolman, Minneapolis, Minn.

## CONCRETE REINFORCING BARS.

Avery Steel & Iron Co., Minneapolis

Inland Steel Co., St. Paul, Minn.

Corrugated Bar Co., St. Paul, Minn.

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

N. W. Concrete Steel Co., Minneapolis, Minn.

Minneapolis Steel & Mach. Co., Mpls., Minn.

Northwestern Steel & Iron Works, Eau Claire, Wis.

St. Paul Foundry Co., St. Paul, Minn.

## CORNICES.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Berger Mfg. Co., Minneapolis, Minn.

Griffin & Boehme, St. Paul, Minn.

F. V. Haverland, Minneapolis, Minn.

Milwaukee Corrugating Co., Milwaukee, Wis.

Minnesota Roofing & Cornice Works, St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

H. C. Thomas & Bro., La Crosse, Wis.

## CORRUGATED IRON, ETC.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Avery Steel & Iron Co., Minneapolis

Berger Mfg. Co., Minneapolis, Minn.

Corrugated Bar Co., St. Paul, Minn.

American Bridge Co., Minneapolis, Minn.

## CONCRETE REINFORCING.

Berger Mfg. Co., Minneapolis, Minn.

Inland Steel Co., St. Paul, Minn.

N. W. Concrete Steel Co., Minneapolis, Minn.

## CONTRACTORS SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.

Mertes Machinery Co., Milwaukee, Wis.

Minneapolis Equipment Co., Minneapolis

Standard Salt & Cement Co., Duluth, Minn.

Ellis Woolman, Minneapolis, Minn.

## CULVERTS.

Berger Mfg. Co., Minneapolis, Minn.

Plesanz Stone Co., Winona, Minn.

Galion Iron Works, Minneapolis, Minn.

Klauser Mfg. Co., Dubuque, Iowa

Minneapolis Steel & Mach. Co., Mpls., Minn.

## CRUSHED STONE.

Fowler & Pay, Mankato, Minn.

General Western Material Co., Waterloo, Ia.

Kettle River Co., Minneapolis, Minn.

Klauser Mfg. Co., Dubuque, Ia.

Mantorville Stone Co., Mantorville, Minn.

New Ulm Stone Co., New Ulm, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Widell Co., Mankato, Minn.

## DEADENING MATERIAL.

Cement Tile Machinery Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Northern Insulating Co., St. Paul

W. S. Nott Company, Minneapolis, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Union Fibre Co., Winona, Minn.

## DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

## DITCHING MACHINES.

Bay City Dredge Works, Bay City, Mich.

United Iron Works, Springfield, Mo.

## DREDGES.

Bay City Dredge Works, Bay City, Mich.

## ELECTRICAL ENGINEERING.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Northern Electrical Co., Minneapolis, Minn.

Beck Electric Constr. Kompany, Minneapolis

ELECTRIC MOTORS AND SUPPLIES

Elker Electric Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Sterling Electric Co., Minneapolis, Minn.

## ELECTRIC SPECIALTIES.

Elker Electric Co., Minneapolis, Minn.

## ELEVATORS AND ENCLOSURES.

Dahlquist Machinery Co., St. Paul, Minn.

Kimball Bros Co., Council Bluffs, Iowa

Gust Lagerquist, Minneapolis, Minn.

Lee & Hoff Mfg. Co., St. Paul, Minn.

Frank A. Pigeon, Minneapolis, Minn.

## ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

## ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.

Lewis A. Larsen, St. Paul, Minn.

Charles L. Pillsbury, Minneapolis, Minn.

L. P. Wolff, St. Paul, Minn.

M. B. Stone, Minneapolis, Minn.

W. P. Cowles, Minneapolis, Minn.

Power Engineering Co., Minneapolis, Minn.

## EXCAVATORS.

Bay City Dredge Works, Bay City, Mich.

## FIRE ESCAPES.

Avery Steel & Iron Co., Minneapolis

Crown Iron Works Co., Minneapolis

Des Moines Structural Steel Works, Des Moines, Ia.

Davenport Mach. & Fdy. Co., Davenport, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Milwaukee Corrugating Co., Milwaukee, Wis.

St. Paul Foundry Co., St. Paul, Minn.

## FIRE HYDRANTS.

Waterous Engine Works Co., St. Paul, Minn.

## FIREPROOF DOORS.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Thorp Fireproof Door Co., Minneapolis, Minn.

## FLUE LINING.

Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis

Northwestern Lime Co., St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can be found by referring to the Alphabetical List of Advertisers

Waterous Engine Works Co. St. Paul, Minn.  
**INSULATING MATERIAL.**  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.  
 Northern Insulating Co. St. Paul  
 W. S. Nott Company Minneapolis, Minn.  
 Standard Salt & Cement Co. Duluth, Minn.  
 Union Fibre Co. Winona, Minn.

**INSURANCE.**  
 Fred L. Gray Co. Minneapolis, Minn.  
 Hood & Matschke Minneapolis, Minn.  
 W. B. Joyce Co. Mpls. and St. Paul, Minn.

**IRON AND STEEL WORK.**  
 American Bridge Co. Minneapolis, Minn.  
 Avery Steel & Iron Co. Minneapolis, Minn.  
 Clinton Bridge Works Clinton, Ia.  
 Crown Iron Works Minneapolis, Minn.  
 Davenport Machine & Foundry Co. Davenport, Ia.

Des Moines Bridge & Iron Co. Des Moines, Iowa  
 Des Moines Structural Steel Works Des Moines, Iowa  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Inland Steel Co. St. Paul, Minn.  
 Minneapolis Steel & Mach. Co. Mpls., Minn.  
 N. W. Concrete Steel Co. Minneapolis, Minn.  
 Oberg & Stamer Minneapolis, Minn.  
 St. Paul Foundry Co. St. Paul, Minn.  
 E. J. Voggenreiter Co. Dubuque, Ia.  
 Youngstown Iron & Steel Co. Minneapolis, Minn.

**JOIST HANGERS.**  
 American Bridge Co. Minneapolis, Minn.  
 Avery Steel & Iron Co. Minneapolis, Minn.  
 Crown Iron Works Minneapolis, Minn.  
 Davenport Machine & Foundry Co. Davenport, Ia.

Des Moines Bridge & Iron Co. Des Moines, Iowa  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Minneapolis Steel & Mach. Co. Mpls., Minn.  
 Northwestern Concrete Steel Co. St. Paul, Minn.  
 St. Paul Foundry Co. St. Paul, Minn.

**LABORERS.**  
 Diamond Labor Supply Co. Chicago, Ill.  
**LIME.**  
 General Western Material Co. Waterloo, Ia.  
 Rowler & Fay Mpls. and Mankato, Minn.  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 Landers-Morrison-Christenson Co. Minneapolis, Minn.

Gust Lillyblad Red Wing, Minn.  
 Shakopee Cement Lime Manufacturing Co. St. Paul, Minn.  
 Speakes Limit & Cement Co. Superior, Wis.  
 Shevlin-Carpenter Lumber Co. Minneapolis, Minn.  
 St. Paul Lime & Cement Co. St. Paul, Minn.  
 Standard Salt & Cement Co. Duluth, Minn.  
 The Northwestern Lime Co. St. Paul, Minn.

**MANTELS-GRATES.**  
 Drake Marble & Tile Co. Minneapolis and St. Paul, Minn.  
 Dunlop-Moore Co. Duluth, Minn.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 N. W. Marble & Tile Co. Minneapolis, Minn.  
 Peerless Marble & Tile Co. Minneapolis, Minn.  
 Twin City Tile & Marble Co. Mpls., Minn.

**MARBLE, TILING, MOSAIC.**  
 Drake Marble & Tile Co. Minneapolis and St. Paul, Minn.  
 Dunlop-Moore Co. Duluth, Minn.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 N. W. Marble & Tile Co. Minneapolis, Minn.  
 Peerless Marble & Tile Co. Minneapolis, Minn.  
 Twin City Tile & Marble Co. Mpls., Minn.

**METAL SHINGLES.**  
 Badger Steel Roofing & Corrugating Co. La Crosse, Wis.  
 Berger Mfg. Co. Minneapolis, Minn.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 W. S. Nott Company Minneapolis, Minn.

**METAL AND WIRE LATH.**  
 Avery Steel & Iron Co. Minneapolis, Minn.  
 Badger Steel Roofing & Corrugating Co. La Crosse, Wis.  
 Berger Mfg. Co. Minneapolis, Minn.  
 Corrugated Bar Co. St. Paul, Minn.  
 Des Moines Bridge & Iron Co. Des Moines, Iowa

General Western Material Co. Waterloo, Ia.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 Johnson, Jackson & Corning Minneapolis and St. Paul, Minn.  
 Northwestern Lime Co. St. Paul, Minn.  
 Shevlin-Carpenter Lumber Co. Minneapolis, Minn.  
 St. Paul Lime & Cement Co. St. Paul, Minn.

**MILLWORK.**  
 Baxter Sash & Door Co. Duluth, Minn.  
 Osgood-Blodgett Mfg. Co. St. Paul, Minn.  
 Scott-Graff Lumber Co. Duluth, Minn.

**MORTAR MIXERS.**  
 Mortar Mixer Corporation Iowa City, Iowa  
 Standard Salt & Cement Co. Duluth, Minn.

**MUNICIPAL CASTINGS.**  
 Davenport Mach. & Fdy. Co. Davenport, Ia.  
**OFFICE FURNITURE.**  
 Farnham Printing & Sta. Co. Mpls., Minn.

**ORNAMENTAL IRON AND WIRE.**  
 American Bridge Co. Minneapolis, Minn.  
 Avery Steel & Iron Co. Minneapolis, Minn.  
 Builders Iron Works Minneapolis and St. Paul, Minn.  
 Crown Iron Works Minneapolis, Minn.  
 Davenport Machine & Foundry Co. Davenport, Ia.

Des Moines Bridge & Iron Co. Des Moines, Iowa  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Midway Ornamental Iron Works St. Paul, Minn.  
 Minneapolis Steel & Mach. Co. Mpls., Minn.

St. Paul Foundry Co. St. Paul, Minn.  
**PAINTS, FILLERS, ETC.**  
 Gardner Hardware Co. Minneapolis, Minn.  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 H. W. Johns-Manville Co. Minneapolis, Minn.  
 Jackson Mineral Paint Works Milwaukee, Wis.

**PACKINGS AND HOSE.**  
 H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.  
 W. S. Nott Company Minneapolis, Minn.  
**PAVEMENT.**  
 Barrett Mfg. Co. New York, N. Y.

**PIPE—CAST IRON.**  
 American Cast Iron Pipe Co. Minneapolis, Minn.  
**PIPE AND BOILER COVERING.**  
 H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.  
 W. S. Nott Company Minneapolis, Minn.

**PLASTER—WALL.**  
 General Western Material Co. Waterloo, Ia.  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.  
 Plymouth Gypsum Co. Fort Dodge, Ia.  
 Shakopee Cement Lime Co. St. Paul, Minn.

Shevlin-Carpenter Lumber Co. Minneapolis, Minn.  
 St. Paul Lime & Cement Co. St. Paul, Minn.  
 Standard Salt & Cement Co. Duluth, Minn.  
**PLASTERING—ORNAMENTAL.**  
 Monarch Co. St. Paul, Minn.  
 Roy Curtis Duluth, Minn.

**PLASTERERS' SPECIALTIES.**  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
**PLASTIC ORNAMENTS.**  
 Monarch Co. St. Paul, Minn.  
 K. F. Lott & Co. Mpls. and St. Paul, Minn.

**PRINTING.**  
 Farnham Printing Co. Minneapolis, Minn.  
**PRISMS.**  
 American Luxfer Prism Co. Chicago, Ill.  
 Crown Iron Works Co. Minneapolis, Minn.

**PLUMBING AND HEATING JOBBERS.**  
**POWER PLANTS.**  
 National Mfg. & Supply Co. Mpls., Minn.  
**REVOLVING DOORS.**  
 Van Kannel Revolving Door Co. St. Paul, Minn.

**ROAD MACHINERY.**  
 Gallon Iron Works Minneapolis, Minn.  
**ROOFING GRAVEL AND ASPHALT.**  
 Griffin & Boehme St. Paul, Minn.  
 H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co. Duluth, Minn.  
 Minnesota Roofing & Cornice Works St. Paul, Minn.  
 Northwestern Lime Co. St. Paul, Minn.  
 Scribner-Libby Co. St. Paul, Minn.  
 W. S. Nott Company Minneapolis, Minn.  
 Selden Roofing & Manufacturing Co. Minneapolis, Minn.

**ROOFING—METAL.**  
 Badger Steel Roofing & Corrugating Co. La Crosse, Wis.  
 Berger Mfg. Co. Minneapolis, Minn.  
 Duluth Corrugating & Roofing Co. Duluth, Minn.

Gardner Hardware Co. Minneapolis, Minn.  
 La Crosse Steel Roofing & Corrugating Co. Minneapolis, Minn.  
 W. S. Nott Company Minneapolis, Minn.  
 St. Paul Roofing, Cornice & Ornamental Co. St. Paul, Minn.  
 N. W. Roofing, Cornice & Stamping Works Minneapolis, Minn.

H. C. Thomas & Bro. La Crosse, Wis.  
**ROOFING MATERIAL.**  
 Badger Steel Roofing & Corrugating Co. La Crosse, Wis.  
 Barrett Mfg. Co. New York, N. Y.

Biesanz Stone Co. Winona, Minn.  
 Corrugated Bar Co. St. Paul, Minn.  
 General Western Material Co. Waterloo, Ia.  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 John Leslie Paper Co. Minneapolis, Minn.  
 H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company Minneapolis, Minn.  
 Shevlin-Carpenter Lumber Co. Minneapolis, Minn.  
 Standard Salt & Cement Co. Duluth, Minn.  
**ROOFING AND SIDING—IRON AND STEEL.**  
 Badger Steel Roofing & Corrugating Co. La Crosse, Wis.

Berger Mfg. Co. Minneapolis, Minn.  
 Gardner Hardware Co. Minneapolis, Minn.  
 Inland Steel Co. St. Paul, Minn.  
 H. W. Johns-Manville Co. Minneapolis, Minn.  
**SAND AND GRAVEL.**  
 Mason City Sand & Gravel Co. Mason City, Ia.

**SHINGLES—RUBBER.**  
 W. S. Nott Company Minneapolis, Minn.  
 Standard Salt & Cement Co. Duluth, Minn.  
**RUST-RESISTING IRON SHEETS.**  
 Berger Mfg. Co. Minneapolis, Minn.  
 Inland Steel Co. St. Paul, Minn.

**SAND AND GRAVEL.**  
 Biesanz Stone Co. Winona, Minn.  
 General Western Material Co. Waterloo, Ia.  
 Standard Salt & Cement Co. Duluth, Minn.  
**SASH AND DOORS.**  
 Baxter Sash & Door Co. Duluth, Minn.

Carr-Cullen Co. Minneapolis, Minn.  
 Osgood & Blodgett Mfg. Co. St. Paul, Minn.  
 Scott-Graff Lumber Co. Duluth, Minn.  
 Shevlin-Carpenter Lbr. Co. Minneapolis, Minn.  
**SEWER PIPE AND DRAIN TILE.**  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Iowa Sewer Pipe & Tile Co. Des Moines, Ia.  
 Lehigh Sewer Pipe & Tile Co. Fort Dodge, Iowa

Northwestern Lime Co. St. Paul, Minn.  
 Plymouth Clay Products Co. Red Wing, Minn.  
 Red Wing Sewer Pipe Co. Red Wing, Minn.

Standard Salt & Cement Co. Duluth, Minn.  
 St. Paul Foundry Co. St. Paul, Minn.  
**SHADE ADJUSTERS.**  
 Wm. J. Work St. Paul, Minn.

**SHEETS—IRON AND STEEL.**  
 Badger Steel Roofing & Corrugating Co. La Crosse, Wis.  
 Berger Mfg. Co. Minneapolis, Minn.  
 Gardner Hardware Co. Minneapolis, Minn.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Inland Steel Co. St. Paul, Minn.

**SIDEWALK LIGHTS.**  
 American Luxfer Prism Co. Chicago, Ill.  
 Avery Steel & Iron Co. Minneapolis, Minn.  
 Crown Iron Works Co. Minneapolis, Minn.  
 Berger Mfg. Co. Minneapolis, Minn.  
 General Western Material Co. Waterloo, Ia.

Haakinson & Beatty Co. Sioux City, Iowa  
 K. F. Lott & Co. St. Paul and Minneapolis, Minn.  
**SLATE BLACKBOARDS.**  
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 Peerless Marble & Tile Co. Minneapolis, Minn.  
 Twin City Tile & Marble Co. Minneapolis, Minn.

**SKYLIGHTS.**  
 Badger Steel Roofing & Corrugating Co. La Crosse, Wis.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Krieger-Jamar Co. Duluth, Minn.  
 St. Paul Roofing, Cornice & Ornament Co. St. Paul, Minn.

H. C. Thomas & Bro. La Crosse, Wis.  
**STACK LINING.**  
 H. W. Johns-Manville Co. Minneapolis, Minn.  
 W. S. Nott Company Minneapolis, Minn.

**STEEL—BARS.**  
 American Bridge Co. Minneapolis, Minn.  
 Avery Steel & Iron Co. Minneapolis, Minn.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Inland Steel Co. St. Paul, Minn.  
 Twin City Tile & Marble Co. Mpls., Minn.

**STONE.**  
 Babcock & Wilcox Kasota, Minn.  
 Biesanz Stone Co. Winona, Minn.  
 Edw. Edinger Co. Cedar Rapids, Ia.  
 Kettle River Co. Minneapolis, Minn.  
 Duluth Cut Stone Co. Duluth, Minn.

Mantorville Stone Co. Mantorville, Minn.  
 New Ulm Stone Co. New Ulm, Minn.  
 Pioneer Granite Co. St. Cloud, Minn.  
 Sauk Rapids Granite Co. Sauk Rapids, Minn.

Wm. Penn Stone Co. Minneapolis, Minn.  
 The Widell Co. Mankato, Minn.  
**STRUCTURAL SECTIONS AND SHEETS.**  
 American Bridge Co. Minneapolis, Minn.  
 Avery Steel & Iron Co. Minneapolis, Minn.

Des Moines Bridge & Iron Co. Des Moines, Iowa  
 Inland Steel Co. St. Paul, Minn.  
 Haakinson & Beatty Co. Sioux City, Iowa  
**TANKS—STEEL.**  
 American Bridge Co. Minneapolis, Minn.

Avery Steel & Iron Co. Minneapolis, Minn.  
 Des Moines Bridge & Iron Co. Des Moines, Iowa  
 Minneapolis Steel & Mach. Co. Mpls., Minn.  
 St. Paul Foundry Co. St. Paul, Minn.  
**TANKS—WOOD.**  
 Twin City Sill & Specialty Co. Minneapolis, Minn.

**TERRA COTTA.**  
 Belt Line Brick Co. Mpls. and St. Paul, Minn.  
 General Western Material Co. Waterloo, Ia.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 Johnson, Jackson & Corning Minneapolis and St. Paul, Minn.

K. F. Lott & Co. Minneapolis and St. Paul, Minn.  
**THEATER EQUIPMENT.**  
 The Monarch Co. St. Paul, Minn.  
**TILE—CLAY—PARTITION AND FLOOR.**  
 Hydraulic Press Brick Co. Minneapolis, Minn.  
 Standard Salt & Cement Co. Duluth, Minn.

**VARNISHES.**  
 Gardner Hardware Co. Minneapolis, Minn.  
 North Star Varnish Co. Minneapolis, Minn.  
 Twin City Varnish Co. St. Paul, Minn.  
**VALVES.**  
 Crane Co. Minneapolis, Minn.

Crane & Orway St. Paul, Minn.  
 Mechanical Specialty Co. St. Paul, Minn.  
**VENTILATING SYSTEMS.**  
 Hackney Ventilating Co. Minneapolis, Minn.  
 G. A. Turner Minneapolis, Minn.

**WALL BEDS.**  
 Northwestern Bedding Co. St. Paul, Minn.  
**WATERPROOFING.**  
 General Western Material Co. Waterloo, Ia.  
 Gardner Hardware Co. Minneapolis, Minn.

Hydraulic Press Brick Co. Minneapolis, Minn.  
 H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.  
 K. F. Lott & Co. St. Paul, Minn.  
 W. S. Nott Company Minneapolis, Minn.  
 Standard Salt & Cement Co. Duluth, Minn.

**WATER TOWERS—STEEL.**  
 American Bridge Co. Minneapolis, Minn.  
 Des Moines Bridge & Iron Co. Des Moines, Iowa  
 Minneapolis Steel & Machinery Co. St. Paul, Minn.

**WATER WORKS EQUIPMENT.**  
 Waterous Engine Works Co. St. Paul, Minn.  
**WIRE AND IRON WORKS.**  
 Builders Iron Works Minneapolis and St. Paul, Minn.  
 Haakinson & Beatty Co. Sioux City, Iowa  
 Midway Ornamental Iron Works St. Paul, Minn.

**WEATHER STRIPS.**  
 Metal Weather Strip Co. St. Paul, Minn.  
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 G. E. Ingersoll St. Paul, Minn.

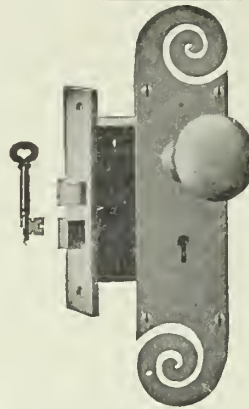


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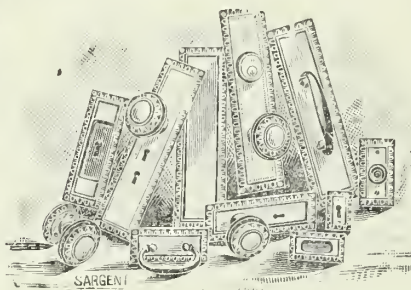
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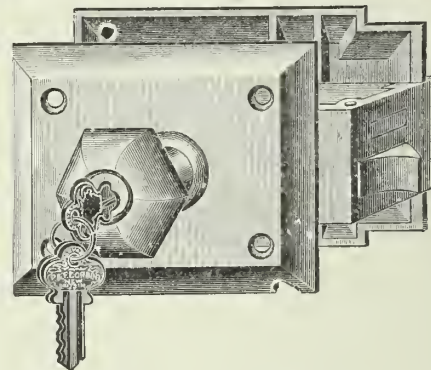
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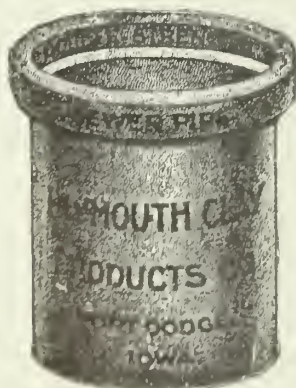
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, JANUARY 23, 1915

NUMBER 8



## EDITORIAL



O. L. COLBURN, Editor

### LOOKING AHEAD INTO 1915.

With this issue the Improvement Bulletin presents to its readers the first annual Outlook Edition. Its main purpose is to give, in condensed form, a prospect of the building situation in the northwest.

The reports we have gathered show conclusively that the impression, which prevailed during the closing months of 1914, about business conditions, was unwarranted, and that the talk of hard times, of which very little has been heard lately, was bound to end soon. Our information proves that conditions have been good and are good. The reports secured for this number are from all parts of the northwest in great measure from architects, or officials actually in charge of the construction work reported; and for this reason they are believed to be reliable.

The unanimity of these statements in pointing out a good year for 1915 is remarkable. The total of the work already in hand for the year, although it does not indicate "the biggest year we ever had," is still large.

It is to be a year of activity, of careful work and of better business methods. In any year clouds may darken the view and storms come up but the sailor who brings home the richest cargo is not he who ventures forth only when the sky is clear and the sun dancing on the ripples. It is he who sticks to his compass and steers straight for his object in all kinds of weather.

The outlook for 1915, a year which opens with our nation at peace while much of the earth is burdened by war, is indeed encouraging.

### NATIONAL BUILDERS' EXCHANGE WILL DISCUSS CONTRACT FORM.

The National Association of Builders' Exchanges will meet in Columbus, Ohio, January 26 to 28 inclusive.

The most important work of the convention will be to act upon the proposed standard documents to be used in connection with the business of building construction.

The primary principles running through all the proposed changes are: First, that the rights and responsibilities of the contractor and owner must be defined as clearly and definitely as possible upon the signing of the contract; second, that the determination of any question which cannot be defined in advance shall ultimately rest with an impartial tribunal or arbitration. A working principle is added to these that the architect—responsible to the owner for the integrity and despatch of the work—shall have the right to control the primary decision in matters of question and to require the work to proceed in accordance with his views subject to the ultimate determination of the rights of the parties under the contract, by arbitration.—From the Building Age.

### THE LEGISLATURE AND THE BUILDERS.

Not much has developed in the proceedings of the Minnesota legislature so far to interest the contractors. A bill, (senate file 56), has been introduced which has aroused the active opposition of the builders' exchanges. It provides for the discharge of a lien on filing a bond in court. It is believed that this proposition originated with the real estate or banking interests and there is no doubt in the minds of builders who have studied its probable results, that it will weaken the position of the building interests and produce a multiplicity of law suits. Labor and employers are reported to have got together on amendments to the compensation act. A Minneapolis member of the house is preparing a bill aimed at contractors who do not pay bills and cause a crop of liens.



Interior St. Paul Builders' Exchange, Showing Exhibits. Illustrated Articles About the Minneapolis and St. Paul Exchanges on Pages 35, 36 and 37.



# Review and Prospect for 1915

Examination of the following reports leaves but one impression, and that is distinct,—a remarkable maintenance of thrifty conditions during a most difficult year, 1914; an outlook of continued good business which includes the normal building of a growing section of the country, with prospects better than usual in a great many instances. The big item on the construction list is dwellings. Towns are growing everywhere. It is shown in reports from many places that the demand for houses keeps ahead of the supply. More resi-

dences means more business and that means more of many kinds of buildings, public and commercial, must follow. The European war seemingly is not much nearer its end. Yet conditions in the commercial world are good and improving steadily. Canada, reports state, is now on the upward trend and it is expected that in the course of a few months, will be as busy, if not busier than during normal times. The north-west advances in spite of adverse influences, and holds to the slogan of "Business as Usual."

## Special Northwest Outlook Reports

**Iowa, Belle Plaine**—A large number of residences will be built in 1915. During the past year it is roughly estimated that \$66,450 has been spent for private improvements while the cost of the 28 blocks of paving that were laid was \$66,803.50. This gives a total of more than \$130,000, for improvements, public and private; plans for paving 42 blocks are considered by the council.

**Iowa, Cedar Falls**—It is generally understood that there will be considerable paving done in this city the coming spring, all of which has been petitioned by a majority of the property owners on the different streets on which the proposed improvement is to be made and which are now filed with the city clerk. As near as could be learned on inquiry, there will be some forty blocks scattered in different parts of the city; the principal part of the improvement will be made on Walnut st. from 1st to 12th sts. and on 6th st., from Washington to College st.

**Iowa, Cedar Falls**—Past season has been a good one for building construction, for public improvements and for general business; general prospects for 1915, good; building outlook, good; general business outlook, fair; paving proposed for 1915, about two and a half miles; sidewalks, 1914, four miles; sewers, 1914, \$3,000; proposed for 1915, \$3,000; schools, 1914, \$40,000; residences, 1914, sixty-one, \$200,000; public buildings, hotel, \$50,000; city hospital, \$40,000; college dormitory, \$200,000; water works, 1914, \$4,000; proposed for 1915, \$6,000; city electric plant, 1914, \$75,000; German Evangelical church, \$40,000, proposed; C. H. Streeter, city engineer.

**Iowa, Charles City**—Past season not good one for building construction or general business; general prospects for 1915, fair; building outlook, fair; paving, 1914, eight blocks asphalt; sewers proposed for 1915, some; residences proposed for 1915, few; J. O. Hughes Co., architects.

**Iowa, Cherokee**—Past season good one for building, public improvements and general business; general prospects for 1915, good; building outlook, good; paving, 1914, \$67,346; no paving in sight yet for 1915; curbs and gutters, 1914, \$7,500; for 1915, none in sight yet; culverts and water ways, \$865; sewers, total \$363; for 1915 contract let for \$4,330; schools, proposed for 1915, fireproof high school, \$85,000; residences, 1914, fifty; water works, 1914, \$6,680; for 1915, none yet; no positive information as to buildings for 1915; Wm. Shordlon, city clerk.

**Iowa, Clarinda**—About a mile and a half of paving is planned for next year; 25 blocks; council is considering a city lighting proposition.

**Iowa, Clarinda**—Past season good one for building construction, public improvements and general business; general prospects for 1915, good; building outlook, paving, 1914, \$70,000; proposed for 1915, 28,000 yards concrete or asphaltic concrete, bids taken about Mar. 14, 1915; schools, 1914, one, \$60,000; proposed for 1915, none; residences, 1914, fifty-five, \$82,000; public buildings, 1914, hotel, school, armory, \$125,000; water works, 1914, \$2,400 water mains; will build some water mains in 1915; there will be a number of good residences next year; T. A. Wilson, business manager.

**Iowa, Clear Lake**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; paving proposed for 1915, about ten blocks; sidewalks proposed for 1915, all kinds of cement sidewalks to put in; curbs and gutters proposed for 1915, great deal of street curbing to be done next spring; residences, 30, \$120,000; proposed for 1915, 10, for tenant houses; will be great number of others, no doubt; new filter probably in 1915; F. B. Stillman, city clerk.

**Iowa, Creston**—In the spring of 1914 a \$40,000 hotel and store building was completed, a \$10,000 wholesale grocery

warehouse was constructed during the summer of 1914. Work going on includes the remodeling of a 3-story hotel building at a cost of \$25,000, which will be completed in the early part of the coming year. We provided plans and specifications for the construction of a fireproof school addition at a cost of \$16,000 in a neighboring town that has been completed during the present year. We now have plans and specifications on file for \$15,000 worth of residence work to be constructed early in 1915. Other miscellaneous work amounts to approximately \$10,000 on which we have rendered architectural services. Though there has been nothing definite proposed in the way of new building for the coming year, we look for a general increase in construction work here in Creston and in surrounding towns; Yule & Waldo, architects.

**Iowa, Davenport**—Commissioner John W. Crowley of public works, reports 2½ miles paved streets laid in 1914, and about half a mile alleys, nearly 6 miles of sewers and nearly 19 miles of sidewalks; recommends paving cross streets between paved streets and that city use only brick and asphalt; urges purchase of street sweeper motor and sprinkler.

**Iowa, Des Moines**—The Fleming brothers have announced that they will build a 16-story addition to the west of their present office building. The Harris-Emery Co. have announced that they will build a 10-story building to the east of their present building. These are the only two buildings of any considerable prominence so far planned for this coming year. The present year has been a very good year in building construction. Improvements are ahead of the previous year. General business conditions have been very good. Our bank clearings are a billion dollars ahead of our best year. Postoffice receipts are greater than ever before. The prospects for the year of 1915 are most excellent for Des Moines. Our territory is Iowa. Iowa's business is founded upon agricultural wealth. The farmers of Iowa have raised a crop worth twenty-three million dollars more than any other crop they have ever raised; paving, 1914, \$263,166; 1915 estimated same as 1914, various kinds, various periods; sidewalks, 1914, \$46,298, (432,383 feet); proposed for 1915, not estimated, brick and cement, bids taken April, 1915; curbs, 1914, \$35,446; proposed for 1915, no definite amount, straight curb, bids various periods; schools, 1914, have seventy-one separate school buildings, \$3,500,000; proposed for 1915, none; all buildings to Dec. 1, 1914, 619, \$1,788,444; bridges, 1914, \$17,997; proposed for 1915, none; Greater Des Moines Committee.

**Iowa, Des Moines**—Past season good for building, public improvements and general business; general prospects for 1915, fair; building outlook, fair; schools, 1914, \$600,000, 11 schools; residences, six, \$100,000; public buildings, 1914, \$2,000,000; proposed for 1915, Sioux Rapids school, \$65,000, bids in Jan. 7, 1915; college building, Iowa state college, Ames, Iowa, state university at Iowa City and state teachers' building, Cedar Falls, not definitely decided yet as to number, but will be fireproof; Proudfoot, Bird & Rawson, architects, Des Moines, Iowa.

**Iowa, Dubuque**—Total improvements of 1914 nearly \$4,500,000; large increase in residence building; extensive development in prospect for 1915, in neighborhood; building improvements planned by C. A. Voelker and others; new Wartburg seminary under construction.

**Iowa, Elkader**—Clayton county has contracted for bridges and culverts during the past season amounting to \$90,000; approximately 85 per cent of the bridges contracted for have been built; on permanent road grading and surfacing, including one mile of water-bound macadam, approximately \$30,000 has been spent; for maintenance and repair of the 226 miles

(Continued on page 23.)



# PERSONAL AND GENERAL NEWS.

Doings of the Northwest this Week Boiled Down for Busy Readers

## NEW OFFICERS N. W. CLAY ASSOCIATION.

F. B. Martin was elected president of the Northwestern Clay Association at the annual meeting. Mr. Martin is Minneapolis manager of the Twin City Brick Co. He was secretary of the clay association last year. He was promoted for good work. L. G. Rose of the Minneapolis Clay Brick Co., was elected secretary-treasurer; B. Frank Pay of Fowler & Pay, Mankato, vice president; M. C. Madsen, of Hutchinson, former president, Jacob Voelker, Winona, A. C. Ochs, Springfield, E. H. Cobb, Minneapolis, executive committee. The meeting was highly successful and the attendance much larger than last year. Owing to crowded conditions of the Improvement Bulletin's special issue this week, a further report of the convention must be held over till next week.

B. E. Scheiber of Albert Lea, contractor, was in the city on business this week. His firm has a lot of work on hand, including ditch jobs at Fairmont, Algona and Blue Earth. The total runs up nearly to \$400,000.

The annual banquet of the Helena Builders' Exchange was held last week. E. W. Fiske was toastmaster. The proposed workmen's compensation law to be submitted to the legislature was discussed. The members had as their guests John Duncan, president and treasurer of the Great Falls Builders' Exchange and A. C. Probst, also a member of the Great Falls Exchange.

E. M. Craig, will be the chief speaker at the annual banquet of the St. Paul Builders' Exchange, Ryan hotel, Tuesday evening, Jan. 26. Mr. Craig is secretary of the Building Construction Employers' Association of Chicago and for 18 years has made a study of labor matters.

Alexandria, Minn., has begun its 1915 building season briskly following a good record last year. The outlook for this coming season is good. Among the new residences now being planned is one for James Cassell, a new home for T. J. Steele, H. Evjen is planning to build; J. A. Wedum is planning to build two or more modern houses. Chief among the business buildings now in prospect is one to be erected by the Interurban Telephone Exchange Co. This will be a modern "central" and office building with basement for work and storage rooms. A new building will be erected on the Aberle lots by Mr. Hendrickson. G. G. S. Campbell this last week sold \$1,200 of lakeside property on Lake Carlos to Mrs. Moll of St. Louis, the lots adjoining the summer home of Mrs.

Cabonne. The purchaser will build a large cottage this next summer.

At Edmonton, Alta., exterior work is progressing favorably on the new armory which is being erected on the Hudson Bay Reserve at a cost of \$286,000. The general contractors are Messrs. P. Lyall & Sons.

The building returns in Calgary for 1914 will approximately be \$4,000,000 in value, a remarkably good showing in the face of the world-wide financial depression. Some of the good months were: May, \$540,600; June \$302,200; July, \$374,000; August, \$1,125,450; September, \$56,000; October, \$108,000; November, \$51,600.

The outstanding feature of construction work which will be undertaken this year will be the aqueduct for the Greater Winnipeg water district, the contracts for which were let some time ago at over \$6,000,000. This scheme will involve an estimated expenditure of \$13,500,000 before being completed. The public works department are erecting one of the three wharves which are to be constructed on the Red river, each of which will cost \$25,000. The parliament buildings will be proceeded with, the ultimate cost of which will be \$4,000,000. A Winnipeg contractor also has this large contract in hand. Mr. H. B. Orkin has announced that he will erect a \$175,000 business block on the site of the existing building. Plans have already been drawn.

An interesting exhibition for the convenience and business advancement of architects, general contractors and builders, is to be installed as a permanent exhibit, occupying the entire 4th floor of the magnificent new First National-Soo Line building, corner of 5th st. S. and Marquette av. The exhibit will be in direct charge of J. P. Foraker, who is the head of the building material exhibit in Chicago. Mr. Foraker has a wide experience in building lines, having spent ten years with the architectural firm of D. H. Burnham & Co., Chicago, Ill.

Adams, Minn., reports a good building outlook. The Krebsbach Co. will build a fireproof store, 60x100, and there will be other new blocks. Many houses are being planned indicating more new dwellings this year than ever.

A new bank building and many other improvements are in prospect at Sherburne, Minn., for 1915.

A number of Vancouver capitalists have formed a syndicate to erect at English Bay, Vancouver's favorite bathing beach, a handsome building to be known as the Vancouver



The Twin City Brick Co. entertained its sales managers and traveling salesmen in St. Paul last week. One of the features was the annual get-together banquet held on Monday evening at the St. Paul Commercial club. W. Siwart Smit, treasurer and general manager, acted as toastmaster and gave the address of welcome. Fritz Koch, president, talked on, "Reminiscences." This was followed by talks covering salesmanship, division work and traffic.

Left to right, sitting: R. W. Scott, salesman; Wm. J.

Meyer, Minneapolis, salesman; L. V. Madsen, sales manager; D. B. Porter, Omaha manager; Geo. Rathjens, vice president; Wm. C. Koch, vice president; John T. Harrington, St. Paul manager; C. V. Pierson, Duluth manager; Irwin W. Folsom, traffic manager; E. N. Rosengren, salesman; Carl C. McComb, Des Moines. Left to right, standing: J. D. W. Hall, southwestern manager; S. Siwart Smit, treasurer and general manager; Fritz Koch, president; Louis Koch, vice president; F. B. Martin, Minneapolis manager.



## Minneapolis Predicts Good Year

Heading the list of big building prospects in Minneapolis is the municipal union passenger station which will cost \$3,000,000. The plans are now before the state railroad and warehouse commission. Within the year there will be completed a number of handsome buildings such as the Hennepin Methodist Episcopal church and the First Church of Christ, Scientist; branch libraries; the new 3d av. concrete bridge, which will be one of the city's costliest ornaments. A New York theatrical syndicate has announced that it will build a \$600,000 vaudeville house to be used instead of the Unique theater. The old federal building will be remodeled at a cost of \$100,000. A 12-story business and hotel building will be started at 10th and Nicollet in the near future. The biology building at the University of Minnesota, to cost \$200,

issue for this purpose. There is now \$363,000 in the permanent improvement fund to the credit of the paving department and an additional \$66,500 was allowed by the board of tax levy.

Twenty-one thousand new dwelling houses and 6,310 new stores, warehouses and factory buildings have been erected in Minneapolis since 1903, according to information contained in the atlas prepared by, and now being distributed, by the Minneapolis real estate board.

Building prospects are bright for the year 1915, according to Building Inspector Houghton. "The outlook seems very good," said Mr. Houghton. "There is a great deal of work coming into the office for examination and prospective builders are planning to push their plans during the year."



THE NEW ART INSTITUTE, MINNEAPOLIS.

000, will be under way soon. A large modern hospital, to cost \$100,000, has just been started on the high river bank site near 24th av. S. and Riverside. The first part of the 12-story hotel and store building, a handsome, modern structure, for the Union City mission at 2d st. and Gateway Park will be built in the spring. Wholesale and warehouse buildings already announced show a large total; many fine residences such as the three for Emery Mapes of the Cream of Wheat Co., will be completed or built during the year in the city and suburbs, including Lake Minnetonka.

The general educational and building program of the state university for the next two years will require \$3,275,000, the board of regents decided recently. This is slightly less than the last legislature allowed. Of the amount, \$500,000 will be needed for building improvements. The improvements wanted are enlargement of the heating plants at the main campus and the farm school, improved quarters for the electrical engineering department, increased hospital capacity for contagious disease and clinic cases, enlargement of the home economics building on the farm and a dining hall and auditorium at the west central station at Morris.

The city may spend \$497,000 for new paving during the coming summer if the legislature approves a \$67,500 bond. Building activity in Minneapolis this year established

a mark well toward \$1,000,000 in excess of the previous record of 1910. There were more than five thousand permits for building improvements already well past the \$15,500,000 total, compared with the previous record of six thousand two hundred and twenty-five permits representing \$14,363,830.

### PROMISING OUTLOOK FOR BRAGSTAD CO.

The annual meeting of the Bragstad Concrete Machinery Co., was held at Canton, S. D., Jan. 11, and A. B. Carlson, Thos. Thorson, A. N. Bragstad, E. Ellington, John Quien, O. R. Isakson and G. G. Satrum were elected directors. A. D. Lane, who has been traveling out of Minneapolis, has taken an interest and associated himself with the company as sales manager. Mr. Lane is a graduated architect and knows the building game thoroughly. The company is arranging for the manufacturing of mixers, tampers and block machines for the spring trade, the outlook for which is very promising. The company has recently received final patent on the completed and perfected continuous mixer, which makes sixteen patents in all, of which eleven are in the United States and five in Canada. The Manufacturers' Supply Co. is the Minneapolis representatives. The company will have an extensive exhibit at the Chicago cement show, with A. N. Bragstad and A. D. Lane, sales manager, in charge.

### PERSONAL AND GENERAL.

Salt Water Baths, at an approximate cost of about \$75,000. Architect Emil Guenther has completed the plans, which provide for a building of attractive design. The structure will be of concrete construction, 60x150 feet, and will be modern in every respect. The front elevation will have marble columns and will be faced with pressed brick. The swimming pool will be 30x120 feet. The main floor will contain seventy dressing rooms, two shower bath rooms and a massage room.

Vancouver, B. C. will build an 8-room, \$60,000 school in Grandview district; probably an 8-room addition to the model

school, and an 8-room brick may be built in Burnaby on E. Vancouver Heights; cost \$50,000.

Beatrice Iron Works of Beatrice, Neb., have increased capital stock to \$150,000; many improvements contemplated to meet increasing trade.

Red Wing, Minn., voted to repair sewers during this winter.

The following officers have been elected by the Electrical Contractors' association of Milwaukee: president, B. L. Burdick; vice president, H. F. Trester; treasurer, Herman Andrae; secretary, J. C. Staff; directors elected are: J. J. Beyer and B. A. Stenz.



## ARCHITECTS AND ENGINEERS.

Architects and draftsmen are invited to take part in an architectural competition by the Housing Commission of Los Angeles, Calif., for a model tenement house. First prize \$50; second, \$25; third \$10; fourth, first honorable mention; fifth, second honorable mention, sixth, third honorable mention. The competition will close at noon, 12 m., March 11, 1915.

Max R. Neippell, architect, formerly of Omaha, Neb., has moved to the Snell building, Ft. Dodge, Iowa.

A. A. Pollard, architect, formerly in the Kasota block, has removed to 843 Security Bank building.

Thos. G. Holyoke, architect, was elected president of the Gargoyle club of St. Paul; E. L. Masqueray, first vice president; D. W. Day, second vice president; A. H. Sullwold, secretary; C. C. Avison, treasurer.

P. T. Glidden, manager, Consumers' Power Co. and president of St. Paul Association of Commerce, talked to the St. Paul Jovian League Thursday evening, on accident prevention.

## ARCHITECTS ARE INVITED.

The Minneapolis Architectural club has been invited to attend the convention of the Western Association of Electrical Inspectors at the Radisson, Minneapolis, next week, Jan. 26-28. The address on the subject of "Electrolysis" which, in these days of steel and reinforced concrete building construction, is receiving so much attention, will be handled in a masterly way by Mr. Burton McCollum, electrical engineer from the Bureau of Standards, Washington, D. C. Great interest is being manifested by all of the engineering and technical societies of the Twin Cities and arrangements are being made whereby the engineering students of the state university with their instructors will be in attendance.

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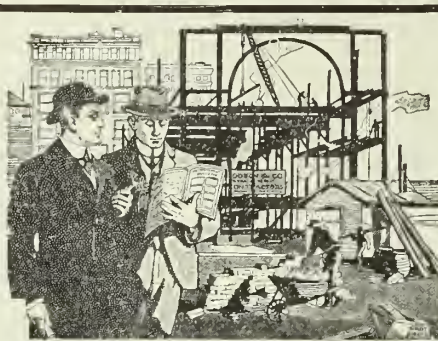
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RATE: 15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

PUBLICATION DAY: Last forms close 10 a. m. Friday. Copy received up till that hour will be published in The Bulletin and delivered to subscribers the next day. Copy received later cannot be published till issue of the following week.

MINIMUM CHARGE: No advertisement published for less than \$2.00 each insertion.

NIGHT LETTER OR PHONE: When too late to send copy by mail to reach us by 10 a. m. Friday, forward by night letter or long distance telephone.

PRINTED SLIPS containing the ad, are furnished to officials, architects and others interested, for distribution by them, without extra charge.

The Daily Reports of The Improvement Bulletin, published every business day, can be used to advantage when copy cannot reach us in time for publication in the weekly Bulletin before bids are to be opened or when daily publications are necessary to meet legal requirements. Rate is the same, —15c per line each insertion.

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For Sale: Electric Generator and Engine, Moorhead, Minn. Jan. 23	

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## St. Paul's Progress is Substantial

St. Paul had a wonderful year for building last year but prospects for 1915 indicate a grand total virtually as remarkable. By many the outlook for 1915 is regarded as the brightest the city has ever had, and a list of some of the larger enterprises in the building field gives plenty of evidence that the optimists are right. Of course the new union station heads the list of structures for the immediate future, and the cost of the building is placed at \$4,000,000. The new St. Paul Athletic club building will be a handsome downtown business structure, as well as club headquarters. Officials of the club have stated that they are determined that the architecture shall be fine enough to make the building famous, and no doubt A. H. Stem, the St. Paul architect selected, will provide such a design. The cost will be \$500,000. Another structure of unusual artistic work will be the state historical building, near the capitol, a classical structure to be designed by C. H. Johnston of St. Paul, and cost \$500,000. An unusually large number of commercial structures, large apartment buildings and fine residences are on the list for 1915. Among them are: The Arlington apartment building of nearly two hundred flats, on the site of the old church which has just been torn down, at Summit and Wabasha; the Mannheimer department store, occupying a whole block frontage and a half a block back, \$800,000; addition to the St. Paul Arcade building, 7th st., \$250,000; addition to the Emporium, \$250,000; business block for W. P. Davidson, \$200,000; commission rows, near 11th and Jackson, \$200,000;

branch libraries, motor speedway, farm products plant, completion of the railroad building for the Great Northern and Northern Pacific, and the First National Bank, occupying one block frontage and two-thirds block back, 12-story, steel frame, being finished; completion of \$1,000,000 public library, walls partly up; town and country club, church home on Montrose blvd., St. Paul Academy, \$65,000; two public schools, \$65,000; residences, estimated at \$5,000,000; additions to county almshouse, \$100,000; Rogers building, \$60,000.

The new city commission government has shown a great interest in the most useful and valuable permanent improvements for the city and their big program for 1915 includes \$2,000,000 for paving, sewers and grading, although St. Paul now has nearly one hundred miles of paved streets, and laid twenty-five miles in 1914, at a cost of \$1,172,000. The former government in 1913 laid seven miles of pavement at a cost of \$385,818.

For Ramsey county, the program as outlined by J. H. Armstrong Co., surveyors, for 1915 includes about twenty-one miles of improved roads. The removal of 350,000 yards of material from White Bear Lake is planned for 1915.

There was from 20 to 30 per cent more electrical construction work in St. Paul in 1914 than in 1913. The work cost \$743,427. Five thousand four hundred and seventy-seven permits were issued for wires and appliances and 4,937 permits for service and meter connections. Eight thousand six hundred and thirty interior connections were made.

### ARCHITECTS AND ENGINEERS.

St. Paul civil engineers elected officers for 1915 as follows; Geo. Rathjens, Twin City Brick Co., president; G. H. Herrold, office engineer, department of public works, vice president; C. E. Nagle, bridge engineer, state highway commission, secretary; H. L. Brink, assistant engineer, American Hoist & Derrick Co., treasurer; O. Palmer, assistant engineer, department of public works, librarian.

The seventh annual convention of the North Dakota Society of Engineers will be held in Minot Feb. 4 and 5 at the armory. Herbert C. Frahm, county surveyor, and E. J. Thomas, city engineer, both of Minot, are in charge of the local arrangements. The program will be out in a few days. It will be by far the most interesting session of the sort ever held in North Dakota. Between 30 and 40 engineers and surveyors of North Dakota are expected to turn out to the convention.



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### Proposal Advertisements For Bids

#### NOTICE TO CONTRACTORS. Gymnasium, Cooperstown, N. D.

Sealed proposals will be received by Berg Bros., at Cooperstown, N. D., up to 1:30 p. m., of Monday Feb. 1, 1915, for the erection and completion of the A. H. Berg memorial gymnasium.

Plans and specifications may be seen at the office of Berg Bros., Cooperstown, N. D., and at the office of Hancock Bros., Fargo, N. D.; also at Builders' Exchange, Minneapolis.

Each bid to be accompanied by a certified check for \$300.00, made payable to Berg Bros.

The check of successful bidder will be forfeited should he fail to enter into con-

tract and furnish a surety bond for the faithful performance of the work.

The right to reject any or all bids is reserved.

By order of Berg Bros., Agents.

HANCOCK BROS., Archts.

#### NOTICE TO CONTRACTORS.

Sewers, Mitchell, S. D.

Sealed proposals will be received at the office of the City Auditor of the City of Mitchell, South Dakota, until 8 o'clock p. m., February 1, 1915, for the construction of lateral sewer including labor and material in said City of Mitchell, as follows:

BRANCH "AI," Sewer District Number 2, Approximately 1,984.5 feet 12-inch pipe; 6 manholes.

BRANCH "AJ," Sewer District Number 3, Approximately 1,108 feet 15-inch pipe; 95.5 feet 12-inch pipe and 1,876.6 feet 10-inch pipe; 9 manholes.

All complete and connected with existing sewers.

All work to be done in accordance with plans and specifications on file in the office of the City Engineer.

A deposit of \$5.00 will be required from each contractor for each copy of plans and specifications furnished him. Deposit fee will be refunded upon the return of said copy of plans and specifications together with the receipt given.

All bids must be accompanied by a draft or a certified check upon some solvent bank in the City of Mitchell, S. D., in the sum of five per cent of the amount bid, to insure the signing of contract and the furnishing of a proper and acceptable bond in the full amount of the contract price within ten days from the time of notification of the award of the contract.

The City Council reserves the right to reject any or all bids.

By order of the City Council.

Dated at Mitchell, South Dakota, this 7th day of January, 1915.

THOMAS EASTCOTT,

City Auditor.

#### BIDS FOR SCHOOL BUILDING.

Sioux Falls, S. D.

Notice is hereby given that sealed proposals for the complete construction of a school building at Sioux Falls, South Dakota, to include all labor and material, will be received by the Board of Education

of the Independent School District of the City of Sioux Falls, at its office in the High School Building in said city, until four o'clock in the afternoon of the 12th day of February, 1915. All bids must be in strict accordance with the plans and specifications for said building prepared by Patton, Holmes & Flinn, architects, which may be seen at the following places, to-wit: the office of the said Board of Education in the city of Sioux Falls, South Dakota; the office of the said architects at Number 8, South Dearborn Street, Chicago; the Builders' Exchange, Minneapolis, and F. W. Dodge Company, Minneapolis.

A certified check for one thousand dollars (\$1,000.00) must accompany each bid. All checks of unsuccessful bidders will be returned to them within three days after the awarding of the contract. The successful bidder will be required to enter into a contract satisfactory to the said Board of Education and to give a bond satisfactory to said Board in the full amount of the contract price, which bond shall in all respects comply with the laws of the state of South Dakota.

The right is reserved to reject any or all bids.

Board of Education of the Independent School District of the City of Sioux Falls, South Dakota,

By W. B. FULLER,  
Clerk.

(Continued on page 16.)



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## WATERTOWN, SO. DAK.

Watertown has six grade schools and one high school. One of the grade schools was constructed in 1913, costing \$22,000 and two more grade schools, costing \$22,000 each were constructed last summer. These schools replace wooden structures which had been built in Watertown some years ago. One of the wooden schools has been moved to West Watertown and established there as a grade school. There will be no further school buildings built until a fireproof building will be placed in West Watertown where they are now placing the graded school.

There are a great number of residences which were built in 1914, about twenty-five which would be of the value of \$3,000 or over and a good many proposed for 1915, but I am unable to say how many.

Public buildings for 1914 are the complete of the Luther hospital, costing \$80,000, Methodist church, \$60,000, the Masonic temple, \$65,000, and the proposed public buildings for 1915 at the present time known of, are Congregational church, about \$50,000; Baptist church, about \$30,000; Presbyterian church about \$25,000; also the public market place, which may be combined with the city administration building.

Other semi-public buildings or public houses built by private interests, would be Citizens' National Bank, 1914, about \$80,000; remodeling granite block for Security National Bank, \$12,000; Dakota Securities Co., \$35,000; J. W. Martin, jewelry store, \$25,000; Lamm building, \$50,000; Guild hall, \$15,000; Dakota Securities Co. for John Moodie Dry Goods Co., \$35,000; H. J. Barton private hospital, \$10,000; Dakota Central Telephone Co., 1914, \$130,000, building and installing of automatic phone system; H. F. W. Schaller, fireproof department store, \$85,000, and the remodeling of other buildings in the way of new fronts, new additions, amounting to \$45,000 or \$50,000.

Proposed buildings for the year 1915, are: First National

Bank building, to be at least \$75,000 or \$100,000; Ferris & Cannon to be at least \$25,000; Western Manufacturing Co., completed building, \$40,00; extension of Watertown Linen Mills; construction of factory for the H. H. Cook Incubator Co.; enlarging of the E. M. Pope Manufacturing Co., to contain the Russell Gas Plant shop, and others not definitely decided as yet.

Water works construction would be simply laying of new mains and connecting with houses, our water works being sufficient for the present and even a much greater city.

Bridges in and about the county, three for 1914, others proposed for 1915.

Watertown extends invitation to all factories to locate in Watertown, a city composed of better than 11,000 inhabitants, located on five separate railroads, with ten arms branching in every direction from the city.

Watertown has an electric light plant suitable to furnish power for a great number of these factories and the company is willing to deal for power at all times.

Watertown is favorably located from coal docks and furnishes railroad facilities for shipping in of raw material to be used in the manufacture of all classes and kinds of articles. Our trade territory also is large and a great deal of produce manufactured here could be used in this trade territory thereby saving the cost of shipment.

The Watertown Commercial club, Howard Case, secretary, invite inspection to propositions thinking of changing locations or establishing new locations, and further information will be furnished by the secretary of the Commercial club.

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### CHURCH.

Detroit, Minn.

Until 5 p. m., Feb. 25, bids will be received by Rev. Chas. Cannon, Detroit, Minn., for erection of a Catholic Church, (brick edifice) at Detroit, Minn.

Plans and specifications at Builders' Exchanges, St. Paul and Minneapolis, and with Father Charles Cannon, pastor, Detroit, Minn.

**PROPOSALS FOR FRAME HOSPITAL BUILDING.** Department of the Interior, Office of Indian Affairs, Washington, D. C., January 13, 1915. Sealed proposals plainly marked on the outside of the sealed envelope "Proposals for Frame Hospital, Red Lake Agency, Minnesota," and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until 2 o'clock P. M., Feb. 15, 1915, for furnishing materials and labor for the construc-

tion of a frame hospital at the Red Lake Agency, Minnesota, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the office of the paper in which this advertisement appears, the U. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., and Omaha, Nebr., the Builders' Exchange, St. Paul, Minn., and at the Agency. For further information apply to the Superintendent of the Red Lake Agency, Minnesota. Cato Sel: Commissioner.

### NOTICE FOR BIDS.

For the Construction of Judicial Ditch No. 27, Beltrami County, Minnesota.

Notice is hereby given that the undersigned auditor of Beltrami County, Minnesota, will on Monday, February 8th, 1915, at 10 a. m., at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the

## PROPOSALS

construction of Judicial Ditch No. 27, located in Townships 158, R. 30-159-29-30-31-160-29-30 one end located 8 miles southeast of Baudette, Beltrami County, according to the plans and specifications of the engineer now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 30.15 miles long, and the estimated number of yards of dirt to be excavated is about 231,182 cubic yards; total estimated cost of the construction of said ditch being about \$52,214, including highway. Maximum cut 9.8 feet, average cut 5.0 feet. Bids will be received for the work as one job or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county if the successful bidder fails to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

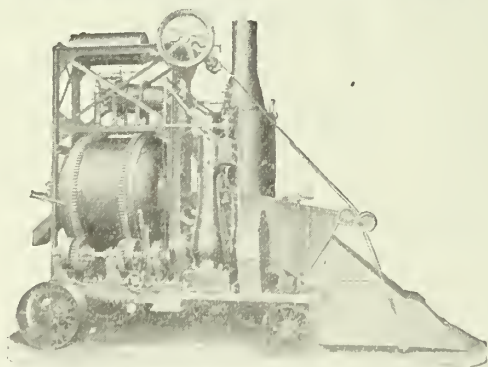
No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any and all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,  
Auditor of Beltrami Co., Minn.  
E. J. BOURGEOIS,  
Engineer.

(Continued on page 18.)

## The Mixer that Proves It's Quality by It's Record



The Koehring Hot Mixer for Bituminous Pavements.

**H**OW much you must charge up to depreciation and repairs are as important questions in determining the real cost of a mixer as the initial expense.

How much of your labor cost is due to delays directly traceable to the mixer is another important item to consider when comparing initial cost.

It's the Koehring Quality Mixer that proves its dollar-earning qualities by its record of continuous service and low cost of maintenance.

Catalogue 19, the most complete Mixer Catalogue, gives details.

**KOEHRING MACHINE COMPANY, Milwaukee, Wis.**

H. B. JONES, Dist. Mgr.

350 Security Bank Building

Minneapolis, Minn.

"CONCRETE FOR PERMANENCE"

**T**HE choice of a cement and a friend — how much alike — the good stand the test of time.

*"The Standard by which all other makes are measured"*





# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.  
Phones: N. W. 3902. T-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

Frederick Carlisle, 4028 Harriet av., 1-story plaster veneer dwl.; O. W. Elfstrom, builder; address owner, 4150 Pillsbury av.	3,500
G. H. Lindberg, 3713 Cedar av., 1½-story plaster veneer and shingle dwl.; address owner, 3509 Cedar av.	2,300
A. H. Carlson, 4004 12th av. S., 1½-story frame dwl.; address owner, 3403 15th av. S.	2,200
Nels Nelson, 4036 25th av. S., finish dwl.; address owner, 4024 32d av. S.	1,000
John A. Ecklund, owner and builder, 304 W. 50th st., 2-story plaster veneer dwl.; address owner, 4054 Blaisdell av.	3,500
Morris Caspersen, 2318 Stevens av., alterations; Paul Soro builder	2,000
A. H. Smith, 3107 4th st. SE., alterations changing frame dwl. into flats (4); address owner	1,750
Henry Oltman, 3730 Pleasant av., 2-story frame dwl.; address owner, 2828 Chicago av.	3,000
Martin Roberstad, 3724 28th av. S., finish up interior of frame dwl.; address owner, 3724 28th av. S.	1,000
E. G. Walton Agency, agents, 501-39 10th av. S., general repairs; W. J. Trogner, builder; address owner, 114 S. 4th.	3,000
C. E. Cook, 620 E. 15th st., 1-story frame additions to dwl., stone foundation, alterations changing dwl. into duplex; P. J. Sonner, builder; address owner, 611 Phoenix building	3,000
Joyce Memorial M. E. Church, 31st st. and Fremont av. S., finish Sunday School room in basement; P. J. Sonner, builder; address owner	1,500
Frank P. Nicoll and Charles E. Purdy, 24 Wilder st., 1-story brick ice cream factory; Splady, Albee & Smith, builders; address owners, 703 Metropolitan Life building.	5,000
Minneapolis Knitting Works, 626 N. Bryant av., 1-story brick addition to factory; H. N. Leighton & Co., builders; address owner	3,000
Mrs. Ella T. Pendergast, 4300 S. Aldrich av., 2-story plaster veneer dwl.; Chas. Hahn, builder; address owner	4,500
Kildall Fish Co., 422-28 N. Washington av., electric freight elevator; Gust Lagerquist, builder; address owner, 205 Washington av. N.	3,000
Carl A. Erickson, 3308 48th av. S., 1-story plaster veneer dwl.; address owner, 3324 23d av. S.	3,000
C. W. Lunquist Co., 1523 Monroe st. NE., 1½-story frame dwl., C. W. Lunquist Co., builder; address owner, 1604 N. 6th.	2,000
C. W. Lunquist Co., 801 20th av. NE., 1-story plaster veneer dwl.; C. W. Lunquist Co., builders; address owner, 1604 N. 6th.	3,000
Wm. E. Brandenburg, 5027 42d av. S., 1-story frame dwl.; address owner, 5123 42d av. S.	1,500
E. E. Laselle, 3632 4th av. S., 1-story plaster veneer dwl.; address owner	2,000
Mrs. Helen G. Deney, 4641 33d av. S., 1-story frame addition to dwl.	1,000

\*A. R. Van Dyke, architect, McKnight building, is preparing plans for a large modern residence in Austin, Minn., for A. L. Eberhart; hollow tile, brick and stucco, 2-story, concrete, modern, hot water heat; three baths, five toilets, sun room, sleeping porches, three brick fireplaces, two tile fireplaces, tile baths, tile vestibule, tile porches, tile sun room, oak finish, asbestos shingles, laundry trays and drier, electric light and gas, linoleum floors in kitchen, French windows, vacuum cleaner system, dumb waiter, house, 50x57; spring work; owner will let.

Ernest Kennedy, architect, Essex building, will have the plans for the business building, at 1115 Hennepin, for E. C. Gale, attorney, Security Bank building, out for figures the latter part of next week; concrete, fireproof, brick facing, 2-story, foundation for more, 2 stores, steam heat, freight elevator, mechanical equipment will be let later.

Plans have been furnished by Glenn L. Saxton, architect, Plymouth building, for a modern bungalow, at Winona, Minn., 26x36, for Botsford Lumber Co., frame, Standard varnish; also plans for a modern dwelling at Flandreau, S. D., for Davidson & Rae, frame, \$3,000; residence, Lake City, Iowa, for Joyce Lumber Co., frame, 24x30, \$3,500.

\*A report of the bids opened Thursday for the biology building, university, general, places the Fleischer-Rose Construction Co., Plymouth building, Minneapolis, low; and others in the order named: Hodgins, Elliott Co., Robinson Co., Splady, Albee & Smith, Cheney, Leighton, Butler Bros., Pike & Cook, Cameron & Co.; fourteen bids received; award not announced.

\*A. R. Van Dyke, architect, McKnight building, is preparing plans for a modern residence in Austin, Minn., for W. D. Bassler; hollow tile, stucco, 2-story, modern, hot water heat, three tile baths, brick fireplace, vacuum cleaner system, sleeping porches, sun room, hollow tile garage; spring work.

Permits have been issued for finishing the basement of the Joyce Methodist Episcopal Memorial church for Sunday school, \$1,500; also for improvements and changes, dwelling to duplex, for C. E. Cook, 620 18th st. E., \$3,000. Downs & Eades, architects, New York Life building.

\*Haley & Johnson, architects, Plymouth building who furnished plans for the new Regent theater, 6th and Hennepin, have completed drawings for a large marquis across the Hennepin av. front; galvanized iron, steel, electric wiring; contract to be let at once.

\*Stebbins & Haxby, architects, Masonic Temple, have started plans for an addition to the Johnson school; five class rooms and kindergarten; also plans for an addition to the Fuller school; five class rooms, domestic science, manual training, gymnasium, etc.

John A. Ecklund, 4054 Blaisdell av., is building a modern dwelling at 304 W. 50th st., 26x48, concrete blocks and brick foundation, 2-story, plaster veneer, hot water heat, tile bath, sun room, sleeping porch, private plans; owner builds; \$3,500.

Splady, Albee & Smith, contractors, Plymouth building, have the contract for the ice cream factory at 24 Wilder st., Nicollet Island, for Frank Nicoll and Chas. E. Purdy, 3100 W. Lake; 34x85, 1-story, brick, concrete foundation, \$5,000.

Contract awarded to Peter Nelson & Co., 815 Temple Court, railroad contractors, for grading twenty-seven miles of the Wisconsin and Northern railroad, clearing to start at once; work to be done Aug. 1.

Bids received by city purchasing agent, 217 City Hall, until 3 p. m., Jan. 25, for furnishing 500 tons of deformed, mild, steel bars; plans on file at 217 City Hall; check for \$300 to city treasurer.

Contract awarded to Vitrolite Construction Co., Minneapolis, for wainscoting, two baths and one shower, in the residence of Architect L. L. Long, Groveland Terrace.

A frame dwelling will be remodeled into a four-flat at 3107 4th st. SE., by H. M. Smith; plaster veneering, plumbing, wiring; day labor; no architect.

W. J. Trogner, 114 S. 4th, has the contract for repairs and improvements at 501 10th av. S., for E. G. Walton, real estate agency; \$3,000.

Fire damaged the plant of the Stockland Road Machinery Co., 34th av. S. and 27th st., about \$12,000; partly covered by insurance.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. Phones, Grand 1304, Melrose 1247.

\*John M. Carson, architect, has prepared plans for a small frame and stucco residence to be erected at Kenilworth Park.

\*Wangenstein & Giliuson, architects, Providence building, are completing plans for a small frame house to be built at Woodland; cost about \$4,500; Frank Wiren, owner.

\*Plans are being completed by Holstead & Sullivan, architects, Palladio building, for a parochial school at Virginia, Lady of Lourdes congregation, 3-story, brick and terra cotta; cost about \$70,000.

\*Plans for the Dickerman Investment Co., First av. W. and 1st st., Holstead & Sullivan, architects, Palladio building, are out for figures.

\*Austin Terryberry, architect, Palladio building, is now working on plans for a new Christian Science church to be built at Superior and states that the plans will probably be ready for figures the first of the month.

\*A. Starrin, architect, Providence building, announces that plans for the new Y. M. C. A. building for Winona will not be completed before the 1st of March.

\*Building Permits—John Nordquist, concrete block dwelling, 1st av. W. and 7th st., \$2,500; Joseph Stewart, addition to frame dwelling, E. 8th st. and 5th av., \$1,000; E. Wright, frame dwelling, Chestnut st. and Mich. av., \$2,000; Fawcett & Bergstrom, finishing 11th floor of Fidelity building, Lake av. and W. Superior st., \$5,000.





# Ready For Any Emergency

That's the position of every contractor and municipality operating a Koehring—its superior all-round adaptability for work on wide or narrow streets and roads has made it the largest selling street paver in the world!

Efficiency in naval circles means no more to officers and men of warring fleets than it does to us who build the Koehring—"the paver dreadnaught"—that stands the most rigid tests of paving efficiency! Fewer in parts—speedier and more thorough in mix—simpler and sturdier in construction, the Koehring most economically and quickly lays concrete—and at a mighty big saving in repair bills!

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Let Koehring fortify your profits!! Our agencies are located at strategic points throughout the country!!

**KOEHRING MACHINE CO.**

MILWAUKEE, WISCONSIN





## Before The Winter Winds Come---Be Prepared

**W**HEN you are making final repairs for the winter, do not fail to mention LINO FELT to your customer. Put it in the walls and roof of his home, and the comfort and saving in fuel which the use of this greatest of all Cold, Heat and Sound insulations will give him, means an increase of business for you. New or Old Buildings. There is a Way. We Have It. Write today

**UNION FIBRE COMPANY, Winona, Minn.**

### Proposal Advertisements For Bids

#### FOR SALE, ELECTRIC GENERATOR AND ENGINE. Moorhead, Minn.

The City of Moorhead, Minnesota, has at its electric plant a complete electric generator of 150 kilowatt capacity and a good Corliss engine. The unit is too small and is being superseded by a 500 kilowatt unit.

Electric generator is a two-phase, 60 cycle 2,200 volt, belted Westinghouse unit, modern in every respect and is complete with marble switchboard panel and wiring.

Engine is a Corliss unit with a 16 by 42-inch cylinder, and is rated 250 H. P. at 120 revolutions, on 125 pound steam pressure. Engine has a 12-foot flywheel and is complete with a 3-ply 22-inch belt, belt tightener, and a good jet condenser.

The complete unit may be inspected, at any convenient hour. The outfit will be sold with or without the engine, to the highest bidder. The generator is in exceptionally good condition, and cost the city \$3,639.90 in 1906.

Address the City Clerk, Moorhead, Minnesota.

#### DORMITORY BUILDING.

Red Wing, Minn.

Sealed proposals will be received by the State Board of Control in their office in the State Capitol Building, at St. Paul, Minnesota, until 2:00 P. M., Tuesday, February 9th, 1915, for the altering the east wing of the Boys' Dormitory Building, into a hospital, State Training School, at Red Wing, Minnesota, including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and speci-

fications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to Minnesota State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the St. Paul and Minneapolis Builders' Exchanges, office of the State Board of Control and at the office of the superintendent of the Training School, Red Wing, Minn.

Extra copies of the plans and specifications may be obtained on application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

#### LIBRARY.

Garner, Iowa.

Sealed proposals for the general construction (plumbing and heating separately) will be received by the trustees of the Garner Public Library at Garner at 3:00 P. M., February 11, 1915.

All bids must be in strict accordance with plans and specifications as prepared by J. H. Jeffers & Co., Mason City, Iowa, which may be seen on and after January 27, 1915, either at the Architects' office or at the Library at Garner, Iowa. Plans can be obtained from the architects or from Miss Jennie Elder, Garner, Iowa, by a deposit of Ten Dollars. Certified check must accompany any bids in the amount of 5 per cent of the bid. All checks on unsuccessful bidders will be

returned to them within five days after the reward of the contract. The party or parties to whom work is awarded will be required to give a surety bond in amount of one-half the contract price, as a guarantee of the faithful performance of the work. The right is reserved to reject any or all bids.

Dated January 18, 1915.

(Signed) JENNIE ELDER,

Secretary Carnegie Library Building Committee. Garner, Iowa.

#### SECOND HAND ROLLER WANTED.

Wanted: One 5-ton Tandem Roller. Must be in good condition. Quote lowest cash price. Box 11, Improvement Bulletin.

### Free Help Wanted Advertisements

#### WANTED.

An all-around experienced draftsman, for the coming season, steady work, begin soon. State experience, give references, and for whom employed, from beginning, with wages received, and expected, with samples of work, and age, married, etc.—full particulars.

Address Improvement Bulletin,

For Advertiser No. 17,

Minneapolis, Minn.

WANTED—Several young men who desire to learn the lumber business, having a high school education, some experience in contracting, making plans and blue prints. Give age, experience and references. Box 200, Improvement Bulletin.

Situation wanted by a competent draftsman, experienced in shop work as well as architectural work. Call Drexel 1732.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

#### Building Permits

W. A. Wierschke, 1472 Van Buren, builder, 1-story frame dwl., Fairmont near Cleveland.....	2,000
F. J. Haggerty, 423 Dewey, builder, 2-story frame dwl., Portland near Prior.....	2,500
Michael Fritz, 288 Spring st., builder, 1½-story frame dwl., Spring near Wilkin.....	1,000
Reuben Bunberg, 549 Dayton, 2-story frame dwl., Iglehart near Louis; S. Berkofsky, builder.....	2,500
City of St. Paul, repairs to 3-story brick building, E. 5th near Cedar.....	11,300
City of St. Paul, alterations and repairs to 2-story fire house, Asbury near Taylor.....	4,800
James E. Trask, 719 Germania Life bldg., 1½-story frame dwl., Grand near Hamline.....	2,500
J. Frost, 2-story frame dwl., Dale near Rondo and Carroll; Olson & Erickson, builder.....	3,000
Carl Aronson, 687 Otsego, builder, 1-story frame dwl., 1514 Thomas.....	1,500
E. Wohletz, 317 Arkwright, builder, 1½-story frame dwl., Westminster near Cottage.....	1,000
John Johnson, 792 Jessamine, 1½-story frame dwl., Autumn near Bock.....	1,800
A. F. Evenson, 2-story frame dwl., Doswell near Como; N. O. Levine, builder.....	2,500
Catherine Gadbois, 2-story frame and stucco flats, St. Anthony near Ravoux; Paul Gadbois, builder.....	7,000
Fridolf E. Moline, 1762 W. Minnehaha, builder, 1½-story frame dwl., Pusey near Pennock.....	1,500
Wm. Girig, 1½-story frame dwl., Dayton near Snelling; O. H. Rundquist, builder.....	2,200

Erlanson & Peterson, 1368 W. Minnehaha, builder, 2-story frame flats, 1602 Van Buren.....	5,000
Charlotte G. Cohen, 175 Hague, builder, 2-story frame dwl., Hague near Herschel.....	3,500
John Iffert, 438 Kent st., 2-story frame dwl., Marshall near Dale; Nick Steinmetz, builder.....	3,800

Plans have been furnished for two residences, 1½-story, 24x31, \$4,000, each, Raymond av., by Arthur S. Devor, architect, 705 Germania Life building; owner D. A. Gaumnitz, So. St. Paul; general contractors, J. L. Wilson Co., 705 Germania Life building; foundation in, frame and stone, carpenter let to H. E. Hendrickson, 825 Sylvan; general contractors desire bids on plastering, paintin, electric work.

A modern residence, 1½-story, 24x31, \$3,500, is being built on Baldwin st; Architect Arthur S. Dover, 705 Germania Life building, for L. M. Wilson, 1631 Hague av.; general contractors, J. L. Wilson Co., 705 Germania Life building; foundation in; frame; carpenter let to Frank Hoffman, 2016 Laurel av.; plastering to Geo. Thill, 216 Fairview av.; general contractors desire bids on painting, electric work.

John L. Wilson Co., Germania Life, is building residence, 1½-story, 24x31, \$3,500, Baldwin st., plans by Arthur S. Dover, 705 Germania Life building, for W. B. Gray, 2092 St. Clair st; foundation in; frame, carpenter let to Frank Hoffman, 2016 Laurel av.; plastering to Geo. Thill, 216 Fairview av.; general contractors desire bids on painting, electric work.

A factory is projected by the Geo. Sinclair Manufacturing Co., Anamoose, Iowa, for the Midway district, articles filed with secretary and state, St. Paul, to incorporate; Geo. Sinclair, president, W. C. Babcock, secretary, R. B. Disbro, vice president, 286 E. 6th st.

H. A. Sullwold, architect, Studio building, is preparing plans



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles. roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn.

Duluth Office  
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## The Youngstown Iron & Steel Co.

YOUNGSTOWN, OHIO

MANUFACTURERS OF

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Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.

"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.

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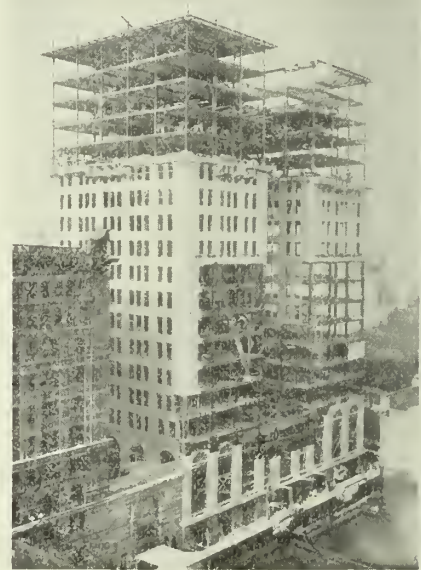
## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota

Lumber Exchange Building, Minneapolis, Minn.

## Structural Steel—

*for every purpose and in any quantity*



First National Bank Building  
20 Stories-3600 tons-Minneapolis

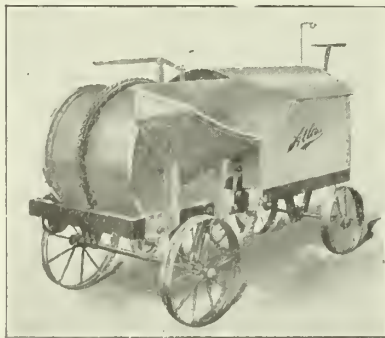
For Buildings, Bridges, Water Tanks,  
Towers, Grain Elevators

## MINNEAPOLIS STEEL & MACHINERY COMPANY

Main Office and Plant, 2854 Minnehaha Avenue  
City Office - 427 Plymouth Building - Minneapolis.

## The Atlas Mixer

Furnished  
with  
Batch  
Hopper  
or  
Power  
loader.



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11 foot  
Capacity

## It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

## Atlas Engineering Company

MILWAUKEE, WIS.

1137-1138 Plymouth Bldg., Minneapolis, Minn.

Telephones: Nicollet 5293, Center 2432.

## STRUCTURAL STEEL AND ORNAMENTAL IRON WORK

Trusses, Girders, Columns,  
Stairways, Fire Escapes, &  
Grilles.

Write us. Estimates cheerfully furnished.

**Davenport Machine & Foundry Co.**  
DAVENPORT, IOWA



for four residences for different owners; names withheld, all in St. Paul; frame and frame stucco, 1½-story, hot water heat, 5 to 7 rooms; St. Paul boilers, modern; spring work.

Peter J. Linhoff, architect, Germania Life building, has awarded the contract for the J. M. Gruber residence to Olson & Erickson, 1076 Kasota; brick veneer, 2 baths, all modern, plumbing, heating and wiring not let.

H. A. Miller, architect, Pittsburg building, is making preliminary plans for a commercial garage, St. Paul, \$20,000; brick and stone, 2-story, 60x144, modern equipment; address owner, care architect; spring work.

Bids are to be taken soon for the new railroad bridge over the Mississippi, replacing present bridge used by the Omaha and St. Paul; Herman Rettinghouse, chief engineer, Omaha road; cost about \$300,000.

Olson & Erickson, 1076 Kasota, have the contract for modern dwelling on Dale between Rondo and Carroll, for J. Frost, 884 Western; 2x28, 2-story frame, hot water heat, sleeping porch, tile bath, \$3,000.

A. F. Evenson, 2279 Commonwealth, is building a modern dwelling on Doswell between Como and Keston, 2-story, frame, 32x26, hot water heat, laundry tray, \$2,500; O. Levine, builder, 1497 Fullam.

New quarters of the St. Paul Postal Savings Bank, being constructed in 6th st. corridor of Federal building, are nearing completion. A. Moorman & Co., contractors; will be ready about Feb. 10.

A 4-flat building is being erected on St. Anthony near Cathedral pl. by Catherine Gadbois, Paul Gadbois, builder, 238 Central; 2-story, frame, stucco, 38x46, hot water, modern, \$7,000.

A new building for the Dale Athletic club is under consideration, for the N. W. corner of Dale and Selby, funds being raised; Chas. Gallagher, president; Chas. Byrnes, secretary.

Water board will expend \$136,000 on buildings, extensions and meters; contract awarded to the National Cast Iron Pipe Co., low bid for 1,146 tons of pipe for water department.

H. A. Miller, architect, Pittsburg building, is preparing plans for an 8-room brick and stucco dwelling, St. Paul, modern, hot water heat, tile bath; address owner, care architect.

James E. Trask, 719 Germania Life building is building a 1½-story frame dwelling, 24x26, modern, hot water heat, \$3,500, on Grand between Hamline and Albert.

John Johnson, 792 Jessamine, is building a frame cottage, 24x28, modern, 1½-story, concrete foundation, hardwood trim, plumbing, gas on Antrín near Geranium.

The old town and country club house will be remodeled instead of building a new house; plans for repairs to be announced soon; B. F. Meyers, president.

Fire damaged the United Lighting Co. building; loss, \$22,000; Naff Tailoring Co., and Don Quick's saloon; loss about \$1,000.

Carl Aronson, 687 Otarga is building a 1½-story frame dwelling, 28x30, hardwood trim, plumbing, gas, at 514 Thomas.

A new hospital building for the Midway hospital is under consideration; Dr. P. H. Bennion, 1812 Selby, president.

Work has been started on widening of Robert st., to be completed June 1; cost about \$1,000,000.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

The board of park commissioners has engaged Alfred C. Clas, architect, 520 Colby-Abbot building, to prepare plans for a concrete and stucco pavilion to be erected in Washington park; 50x200, containing lounging room, lockers, refectory, baths, toilets on first floor and open air pavilion on second; to be built as second unit of grandstand; bids about Feb. 15; Frank P. Schumacher, secretary; the same architect is also preparing plans for a footbridge trestle to be constructed from the foot of Mason st. to the extension of Lake Shore drive to be constructed during the coming year, thus bridging the C. & N. W. tracks. The work will consist of two steel spans with two wood inclines. This contract will be awarded during the year.

W. H. Sebucharth, 428 Jefferson st., architect, awarded following contracts on \$30,000 terminal station for Milwaukee & Northern Electric Railway Co. at 5th and Wells sts., Milwaukee; carpenter, Riesen & Riesen; mason, Paul Riesen & Sons; cut stone, C. W. Tingley; plaster, Matt Fruch; tile, marble and terrazzo, Urban F. Durner; sheet metal, R. Jeske; steel and cast iron, Milwaukee Bridge Co.; heating, Independent Power, Heating & Plumbing Co.; plumbing, A. J. Maag & Co.; electrical, A. R. Schmidt; painting, Ed. Grundmann Co.

The board of school directors, Frank M. Harbach, secre-

tary, will close bids Jan. 28 at 8 o'clock p. m., for the completion of the \$225,000 Washington high school building on Sherman blvd., near Wright st.; bids for mason work; cut stone; carpenter work, hardware and trimmings, sheet metal, painting and glazing, plaster and stucco work, tile, marble, art marble and terrazzo work; slate blackboards; bond 30 per cent; Van Ryn & DeGelleke, architects.

Revised plans for the \$25,000 residence for Mrs. Chas. Stolper, 907 1st st., on Lake Drive near Lake Bluff, have been completed by C. W. Valentine, architect, 428 Jefferson st., who is taking bids on all divisions of the work; hollow tile and plaster construction, 2-story and basement, 74x38, hot water heat, tile flooring, roofing and terraces; incinerator, ice machine, etc.; previously noted.

Leenhouts & Guthrie, architects, 424 Jefferson st., are preparing plans for a \$50,000 Masonic temple building to be erected during this year at Hackett av. and Park pl., by Kenwood Lodge No. 303, F. & A. M. It will be of reinforced concrete, brick and terra cotta, 3-story and basement, 55x110; definite date for taking bids not determined.

Geo. Zagel, architect, has the following work in hand: 4-family flat building for H. Heim on 55th st., near Pabst av., to cost \$4,000; 4-family flat for Scherr & Cohen, 421 Sherman st., to be erected at 14th and Vliet sts., at a cost of \$8,500; frame duplex for Chas. Freund and Julius Lewis on 37th st. near Center, to cost \$5,000.

H. W. Buemming, architect, 521 Jackson st., is preparing plans and will soon take bids for the erection of a brick and mill construction tobacco factory and warehouse on Milwaukee st., near Buffalo, for the C. B. Leidersford Tobacco Co., 270 Broadway; dimensions, 30x120, 3-story and basement; cost \$40,000.

Fred Maettig, architect, 2906 North av., has the following work in preparation: frame duplex, brick veneer, 26x56, cost \$7,000, on Pabst av.; frame duplex, plaster, 24x46, cost \$4,300, at New Butler; alterations of cottage on Davis st. new hot water system, cost \$2,000; owners' names withheld.

The Wisconsin district of the Waltham league of the Evangelical Lutheran church has decided to make a campaign for \$20,000 for the erection of a home for working girls in Milwaukee; Ernest Eggert, Milwaukee, is president and A. H. Koepke, campaign manager.

Byron Scheiderer, architect, is preparing plans for a frame duplex to be erected on 4th st., near Locust st. to cost \$4,500; and for a bungalow costing \$5,000 to be erected on Milwaukee river at Thiensville, Wis.; bids will be taken by architect during the coming month.

M. Korthals, 219 Germania building, has tentatively awarded the general contract for erecting fifteen \$3,600 bungalows on 17th st., near Teutonia av., to J. A. Kern, 206 Germania building; frame, 42x28; time of actual construction not yet determined.

Leenhouts & Guthrie, architects, 424 Jefferson st., started taking bids Jan. 21, for the \$60,000 apartment building to be erected on 12th st., near Grand av., for Chas. Gilman and F. C. Courtenay, Iron block; previously noted.

Clare C. Hosmer, architect, 909 First National Bank, will start taking bids Jan. 23 for the erection of a \$17,500 residence for Wm. Glasscot on Beverly road, East Milwaukee; brick veneer, 36x37, with garage 20x20.

St. Paul's Mission, 12th and Center sts., is contemplating the erection of a new mission church building costing about \$6,000; plans have not yet been drawn; Rev. George W. Schroeder, pastor.

## DES MOINES, IOWA

Plans in progress for bakery, 3-story and basement, \$75,000, Kansas City, Mo., Norman T. Vorse, 911 S & L building, Des Moines for Campbell Baking Co., Baltimore, Md., fireproof, brick and terra cotta, composition roof, metal skylight, structural iron; also plans being made for addition to bakery, 1-story, \$25,000, Architect Norman T. Vorse, 911 S & L building, owner Campbell Bread Co., brick and hollow tile, composition roof, metal skylight, structural iron.

Plans ready for lodge hall, store and office building, 3-story and basement, 50x85, Boone, Iowa, by Weatherell & Gage, 202 Youngerman building, Des Moines, for I. O. O. F. lodge, F. M. Henry, chairman, committee, Booue; spring work; brick, terra cotta, fireproof construction, composition roof.

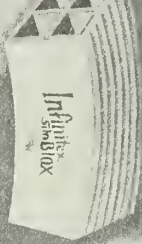
Office building, 2-story and basement, 25x90, \$10,000, will be built at Centerville, Iowa, architects, Weatherell & Gage, 202 Youngerman building, Des Moines, for Appanoose Telephone Co., C. A. Errington, manager, Centerville; contract in spring; stucco on hollow tile, composition roof.

Store and apartment building, (2 stores and 17 apartments),

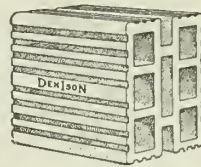
(Continued on page 39.)



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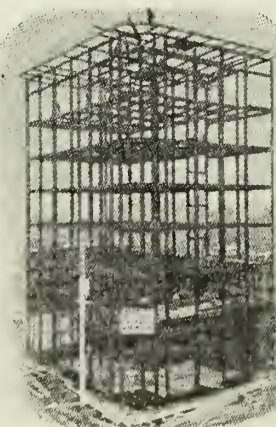
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## SPECIAL NORTHWEST OUTLOOK REPORTS.

(Continued from page 8)

of county roads, which work was carried on through the patrol system, approximately \$15,000 was spent; the county issued \$50,000 in bonds on Oct. 20, \$35,000 of which went to the bridge fund and \$15,000 to the road fund; the work for 1915 is not definitely laid out as yet but no doubt a great many bridges will be constructed; Edw. B. Tourtellot, county engineer.

**Iowa, Fort Dodge**—Building prospects for 1915 include, as practically settled \$100,000 city hall, \$50,000 county home, Sacred Heart church and the Fort Dodge warehouse.

**Iowa, Fort Dodge**—Past season has been a good one for building, public improvements and general business; general prospects for 1915, very good; paving, 1914, \$79,532; sidewalks, 1914, \$15,384; for 1915, not yet known; curbs and gutters proposed for 1915, in with paving, not certain yet; schools, 1914, \$60,000; residences, 1914, two hundred fifty, \$50,000; public buildings, 1914, \$450,000; proposed for 1915, city hall, \$100,000; business block, \$150,000, possibly more; water works, 1914, \$15,000; nothing new as yet for 1915; bridges, 1914, \$33,400; for 1915, not yet known; new block by Dick Snell and hotel annex, \$100,000; new depot block, Des Moines & Southern railway, \$35,000; E. J. Breen, new warehouse, \$75,000; new flats by Mrs. Jacob Kirghner, are among prospects for 1915; J. H. Albright, architect.

**Iowa, Fort Dodge**—The outlook here is very prosperous for the coming season in all lines of work; J. W. Bradford, architect.

**Iowa, Hampton**—1914 showing in public improvements, fair; during the year there has been installed under the direction of city officials, about 3,000 feet of 6-inch water mains at a cost of approximately \$1,600, and some 6,000 feet of new sewers—practically all of this work being in the north and west portions of the city. H. Heiderich is completing a house on S. Dodge st. that is notable because it is the first of its kind to be constructed in this vicinity. It is of hollow blocks finished outside in the new pebble dash with white cement; dimensions, 28x30, 2-story.

**Iowa, Hartley**—The city's improvements for the year can be summarized in round figures about as follows: City water works, \$800; light and power, \$1,100; sewerage system, \$6,200; electric light extension, \$1,200; iron hitching posts and cement gutter paving of which the abutting property paid \$425, \$625. Our farmers have had a prosperous year and the best prices ever. The future holds much of good in store for us all. Plans are in preparation for another good year of improvements along all lines in 1915.

**Iowa, Le Mars**—Past season good for building, public improvements and general business; prospects for 1915, good; sewers, 1914, \$700; for 1915, about same; schools, 1914, \$3,000; residences 1914, fourteen, \$30,000; public buildings, 1914, postoffice, \$25,000 M. E. church; bridges, 1914, \$40,000; Geo. M. Smith.

**Iowa, Maquoketa**—The past season has been a good one for building construction; for general business, fair; general prospects for 1915, good; building outlook, good; general business outlook, good; sidewalks, 1914, \$600; sewers, 1914, \$500; schools, 1914, \$20,000; residences, 1914, ten, \$40,000, seven or eight proposed for 1915; public buildings, 1914, \$20,000; E. J. Kullines, city clerk.

**Iowa, Mason City**—During 1914 it is estimated between \$250,000 and \$300,000 has been spent in new business buildings erected in Mason City. In a few cases extensive improvements, which practically amounted to rebuilding, have been made to established plants. But in addition to this many beautiful business blocks have been built. These improvements show in a large measure the growth of industries of all kinds in Mason City. One or two expensive buildings have been built outside of the business district, as the Great Western depot and the International Harvester building, but many notable additions have been made to the main business part of the city. The outlook is bright for an even more prosperous year in 1915. A list of 1914 improvements includes: 2.1 miles paving, 3.8 miles sewer, 4.1 miles water mains, pumps, etc., two bridges, gas and electric company, \$300,000; Northwestern Portland Cement plant, \$20,000; Lehigh Portland Cement plant, \$20,000; National Clay Works, \$20,000; American Brick & Tile, \$15,000; Milwaukee railroad yards, etc., \$25,000; Great Western depot and yards, \$50,000; Northwestern stock yards, \$10,000; Decker cold storage, \$100,000; Hub Bottling Works, addition, \$10,000; Mason City Bottling Works equipment, \$2,000; Mason City Candy Co., \$5,000; Wilson & Kelly bakery addition, \$20,000; Hawkeye Supply Co., \$40,000; Odd Fellows' home, \$3,000; Mason City Sand & Gravel Co., \$3,500; National Guard armory, \$40,000; Regent theater, \$35,000; Bijou improvements, \$5,000; Mercy hospital, \$125,000; country club, \$15,000; German Methodist Episcopal church, \$2,000; East Park school, \$3,500; Lehigh school, \$3,

500; International Harvester Co., \$75,000; Harper building, \$35,000; Christian building, \$15,000; Wall garage, \$25,000; Garvey & Mulgrew, \$10,000; Mason City Plumbing & Heating Co., \$10,000; Kirk annex, \$6,000; three hundred residences worth \$1,000,000; grand total, \$2,189,500. The county plans to build about fifteen large bridges next year.

**Iowa, Missouri Valley**—Past season not good for building; for public improvements, good; general business, good; general prospects for 1915, good; paving, 1914, \$57,000; curbs and gutters, 1914, \$11,000; S. R. Williams, city clerk.

**Iowa, Nevada**—Past season has been fair for building construction, for public improvements and for general business; the general prospects for 1915 are good; general business outlook is good; paving, 1914, \$35,000; proposed for 1915, 20,000 yards; sewers, 1914, \$7,000; water works proposed for 1915, new \$10,000 well and reservoir; bridges and culverts, 1914, \$35,000; proposed for 1915, \$40,000; bids taken last week in January, date not set yet; Sam Steigerwalt, county engineer.

**Iowa, Northwood**—During 1914 a great deal of building has gone on in Northwood, consisting not only of business buildings, but many elegant new homes have been constructed and other residences have undergone extensive improvements. The new school building which is under construction will be one of the finest in the state for a medium sized town. Northwood is just entering another building boom which will begin more effectively in the spring and continue during the next year. No buildings are being constructed but what are a credit to the town, and are built to last and look good in years to come.

**Iowa, Odebolt**—Public improvements and private building in 1914 amounted to \$140,000; prospects for 1915 include: Banking building for First National, \$60,000; brick lumber plant, for W. P. Adams; store building, 2-story, for Co-operative store.

**Iowa, Osceola**—Past season fair for building construction; general prospects for 1915, fair; residences, 1914, \$20,000; water works, 1914, \$10,000; Presbyterian church contemplating building; W. N. Temple, city clerk.

**Iowa, Pocahontas**—Past season good for building, public improvements and general business; general prospects for 1915, fine; building outlook, fair; business outlook, good; several brick buildings, a new large bank, 3-story hotel erected in 1914; some new buildings will be put up in 1915; L. O'Donnell, county auditor.

**Iowa, Primghar**—Report for O'Brien county; season has been good for building construction, public improvements and general business; general prospects for 1915, very good; building outlook, good; bridges, 1914, concrete culverts and bridges, \$46,000, number built, 151; new court house for O'Brien county, at Primghar, Iowa, for 1915; cost not to exceed \$150,000; proposition carried Nov. 3; ward hospital, Primghar, \$10,000; J. B. Stamp, county auditor.

**Iowa, Rock Rapids**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, fair; general business outlook, good; streets will be oiled in 1915; sidewalks, 1914, \$2,000; for 1915, \$1,500; sewers, 1914, \$3,500; residences, 1914, six, \$30,000; proposed for 1915, same; water works, 1914, \$5,000; in 1915 there will be erected here a new court house to cost from \$125,000 to \$150,000; for this work no bids have as yet been asked either for the plans or the work. During the year just passed the city installed fifty-one five-light electroliters of concrete construction, all being made here and installed by the city; J. K. Medberry, city clerk.

**Iowa, Sac City**—Several new dwellings in prospect for 1915: one for Mrs. E. E. Lewis, will build a modern business block, on side of present store; about \$250,000 spent last year for improvements, including 22 blocks of paving.

**Iowa, Sheffield**—Building record was good in 1914; new school, water works, sewer system, business buildings, 14 dwellings.

**Iowa, Spirit Lake**—Public and private improvements in 1914 amounted to \$300,000; including forty-eight new dwellings.

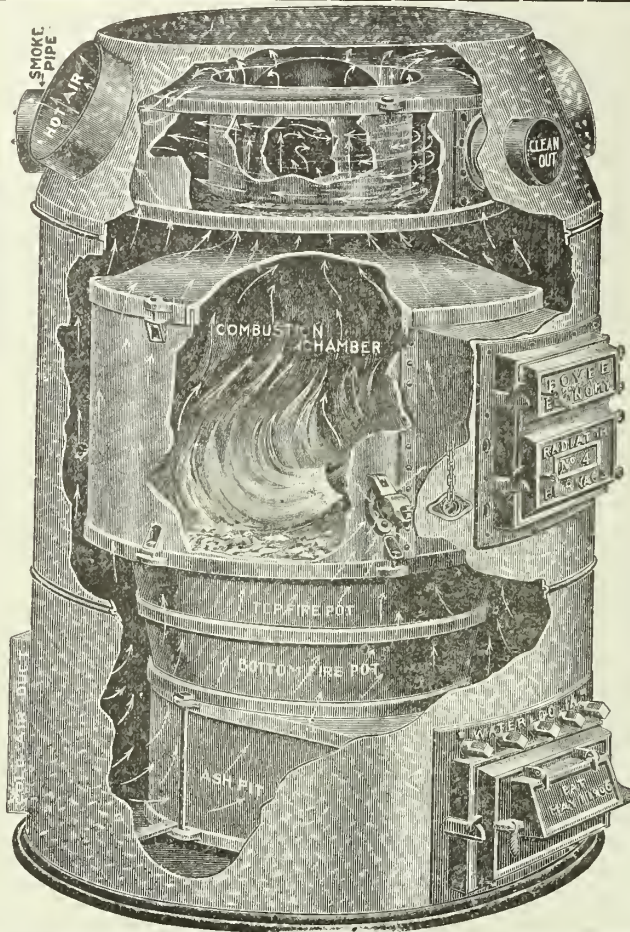
**Iowa, Tipton**—Plans of county board and engineer for 1915 include permanent work on a number of roads, macadamizing, grading; J. C. McLean, county engineer.

**Iowa, Waterloo**—Past season good for building construction and public improvements; general prospects for 1915, good; building outlook, fair; paving, 1914, \$177,681; sidewalks, 1914, \$14,873; curbs and gutters, 1914, \$26,629; sewers, 1914, \$68,763; water works, 1914, \$61,000; one high school and 10-story bank building proposed for 1915; M. T. Humphrey, secretary, Electrical Construction Association, Waterloo, Iowa.

**Minn., Albany**—Village work proposed for 1915: Construction of water tank for village water works; not decided as to

(Continued on page 27.)





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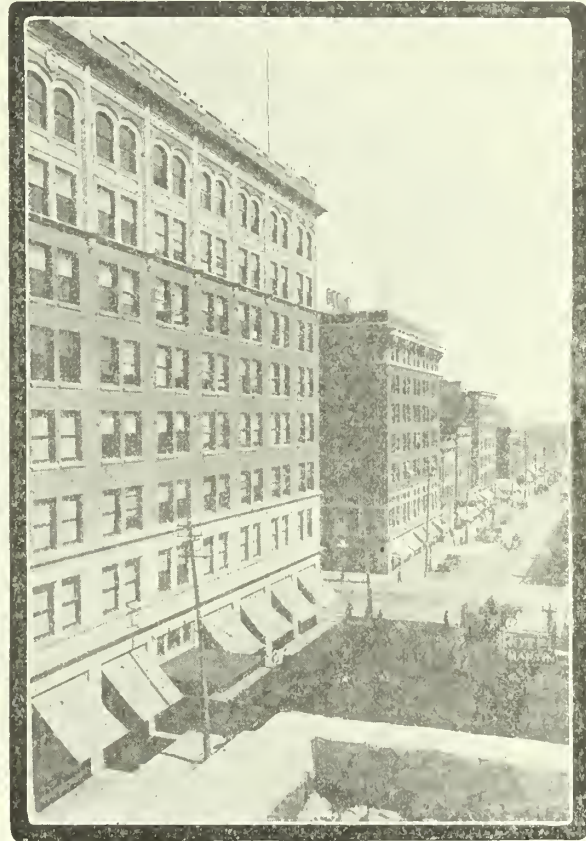


# Building Enthusiasm in Waterloo, Iowa

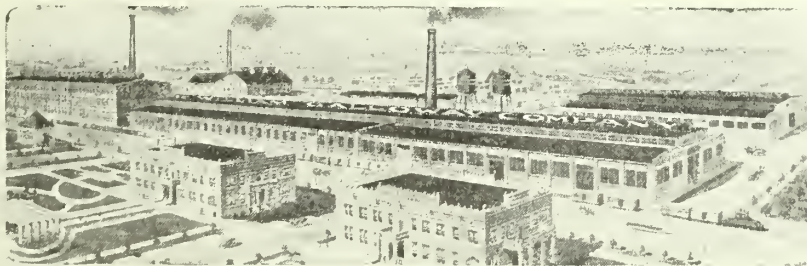
Mortimer B. Cleveland, architect: "I believe we are going to have a very good year indeed; there is a very evident spirit of optimism among builders generally, in this portion of the country. I have had it stated to me a number of times within the past week or so, by men traveling through the state that the prospects were never better for a good year in the building line than at present. Locally, I believe that our contractors look for a very much better year than the past year or so has been. The feeling is very much different than one year ago at this time, when we had an unsettled condition to face."

S. D. Moore, president, Blackhawk Construction Co.: "In general terms, the outlook for building in this territory is very good. However, almost all of the projects await business developments and financial conditions. If the anticipated demand for manufactured articles develops there will be a number of additions to manufacturing plants and business buildings of various kinds. The prospect for business in small towns is good and will not depend so much upon the general business revival, as their prosperity is already here in the shape of last year's magnificent crop."

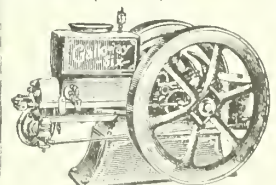
The handsome new bank building of Leavitt & Johnson National Bank will be ready July, 1915; 10-story, cream terra cotta and tapestry brick, steel, all modern; Proudfoot, Bird & Rawson, architect, Des Moines; H. A. Maine Co., general contractors. Paving for 1914 amounted to \$177,000; curbs, \$26,000; sewers, \$68,000; cement sidewalks, \$14,800. Improvement in the parks in 1915 will be extensive; drives and pavilions were built last year and about 6,500 gallons of oil were used on the roads. Crowded conditions at some of the schools will be relieved. Important building operations for



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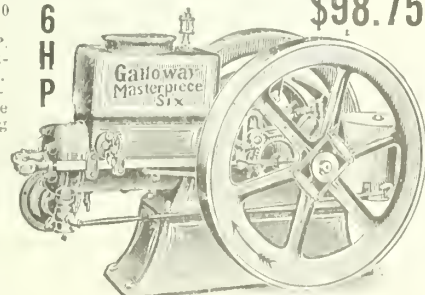
and hook it up to a cement mixer, rock crusher, pile driver or well drill. Try it out beside any other engine of the same rated horsepower. If you are not satisfied that it does the work better and more easily than any of them, crate it up, ship it back to me at my expense and receive the purchase price. I stand back of it with the strongest guarantee it is possible to make with a \$25,000 bank bond to support the guarantee.

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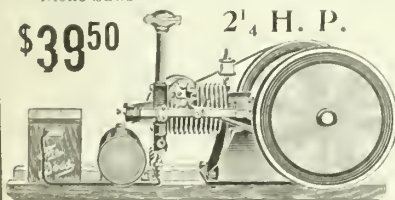


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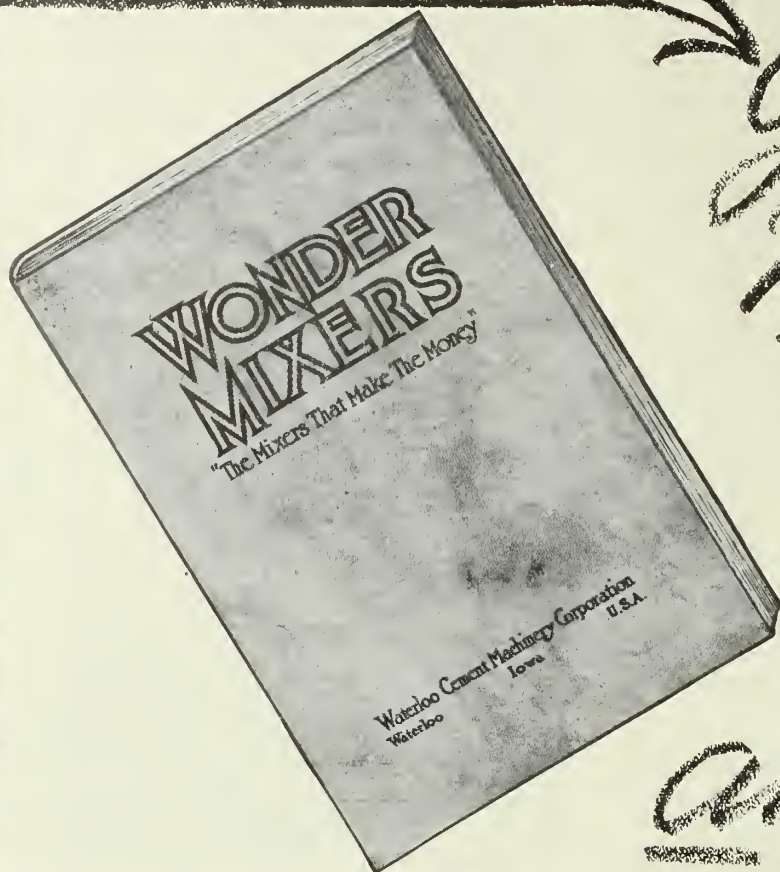
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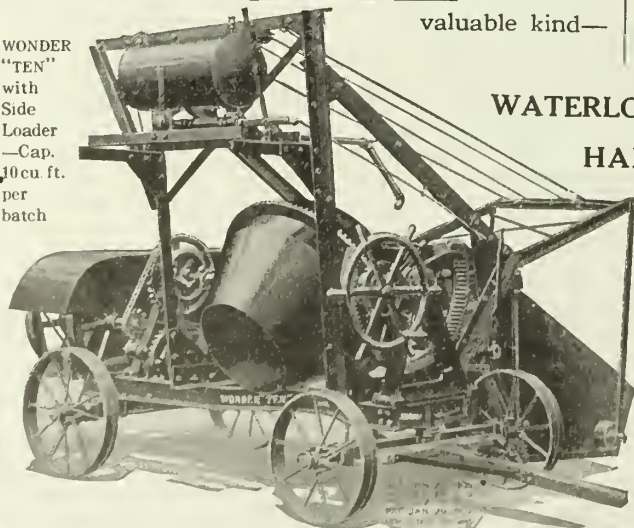
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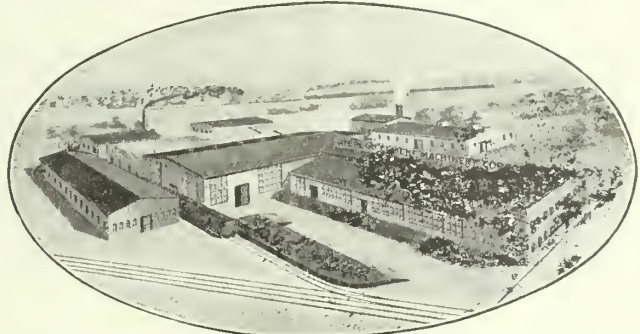
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**The Cement Tile Machinery Co.**

554-58 PLYMOUTH BUILDING, MINNEAPOLIS, MINN.  
Phones: Nicollet 52 Factory  
Annex 52 371 Rath Street  
Waterloo, Iowa

the future on the west side began to receive the attention of the school board during the year just closed. The most immediate of these is a 4-room addition to the Whittier building. The district which this building serves has been rapidly filling up with homes in late years and the result is that the Whittier building has not been large enough to care for the rapidly increasing school population. The new addition will probably be started early in the spring.



Plant of Waterloo Cement Machinery Corporation.

## SPECIAL NORTHWEST OUTLOOK REPORTS.

(Continued from page 23)

what it is to be, steel or wood; Thos. Tamasek, village recorder.

**Minn., Albert Lea**—Total building last year, \$673,670; long lists of contracts appear in a local review from the following contractors: C. M. Tapager, H. R. Jansen, Anderson Bros., A. J. Lenhard, T. A. Boye, N. C. Sorenson, Beck & Roe, Nelson & Nolan, Henry Engen. Over one hundred new residences, fifteen stores and factory buildings. Record shows biggest growth in history of city.

**Minn., Atwater**—Past season for building, fair; business, good; prospects for 1915, good; building outlook, good; general business outlook, good; residences, 1914, five, \$15,000; Chas. A. Swenson, village clerk.

**Minn., Anoka (and Champlin)**—Past season good for building, public improvements and general business; general prospects for 1915, fair; building outlook, fair; paving, one block, 1914; sidewalks, 1914, about two or three miles of sidewalks; residences, 1914, several, \$1,200 to \$7,000 each; other buildings, 1914, two garages, one bank, \$3,000; proposed for 1915, schools (not decided yet as to size and number at Anoka); F. H. Marsh & Sons, architects, Champlin, Minn.

**Minn., Austin**—Past season good for building, public improvements and general business; general prospects for 1915, good; building outlook, fair; paving, proposed for 1915, ten blocks creosote blocks; I believe this is let; sidewalks, 1914, \$3,000; sewers, \$4,000; residences, 1914, forty, \$18,000; public buildings, 1914, \$40,000; water works, proposed for 1915, office \$8,000; bridges proposed for 1915, steel, two; there is talk of a theater in Austin, Minn., parties interested unknown; Paul J. Hayes, architect, Austin.

**Minn., Avon**—Past season good for building, public improvements and general business; building outlook, good; general business, good; sewers, 1914, \$150; proposed for 1915, \$150; residences, 1914, two, \$3,000, proposed for 1915 in spring by Frank Schmidt; Theo. Ritter will build a barn in spring, 1915; Avon State Bank, Avon, Minn.

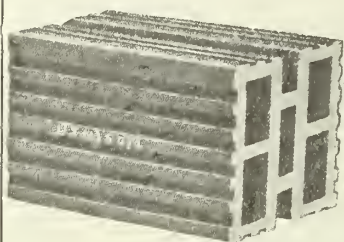
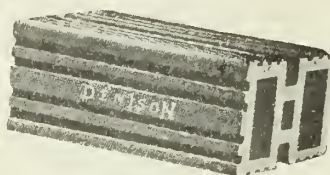
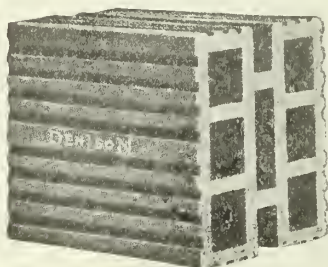
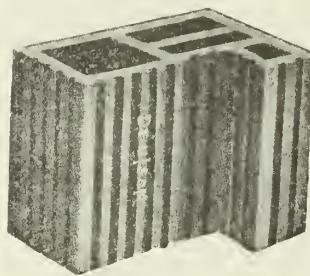
**Minn., Bemidji**—During 1914 Bemidji and Nymore have made permanent improvements amounting to more than \$360,000 of which \$330,000 has been spent in building mills, business blocks, residences, churches and a new telephone system. F. S. Lycan of the Markham hotel, erected a \$40,000 annex. C. E. Battles, proprietor of Battles Hardware Co., built a modern 2-story pressed brick building on Boltrami av. at a cost of more than \$10,000; the German Lutheran church was built at a cost of \$5,000; the Bemidji Automobile Co. built an addition to their garage at a cost of about \$6,000.

**Minn., Bemidji**—Past season good for building; general business, fair; general prospects for 1915, fair; building outlook, fair; paving total 1914, \$12,397; water works, 1914, \$6,700; bridges, 1914, \$6,792; 1915, nothing definite; Geo. Stehn, city clerk.

**Minn., Bricelyn**—Past season good for building construction, not for public improvements; general business, good; general prospects for 1915, fair; building outlook, fair; residences, 1914, three, \$8,000; proposed for 1915, one now and the others early in spring; one garage is being built this year and will

(Continued on page 29.)



No. 35. Size  $8\frac{1}{2} \times 7 \times 12$ No. 23. Size  $8\frac{1}{2} \times 5\frac{1}{2} \times 12\frac{1}{2}$ No. 48. Size  $8\frac{1}{2} \times 10\frac{1}{2} \times 14$ 

Universal Corner

## CONSTRUCTION DETAILS

## DENISON LOAD-BEARING TILE

(United States and Foreign Patents Pending and Allowed.)



Janney, Semple Hill &amp; Co. Warehouse

MINNEAPOLIS, MINN.

Long, Lamorcaux &amp; Long, Architects

J. L. Robinson Co., Contractors

Denison Load Bearing Tile and Denison Partition Tile used throughout the building.

NOTE,---All bearing walls receive directly load from floors and roof, demonstrating practicability of Denison Load Bearing Tile for this purpose.

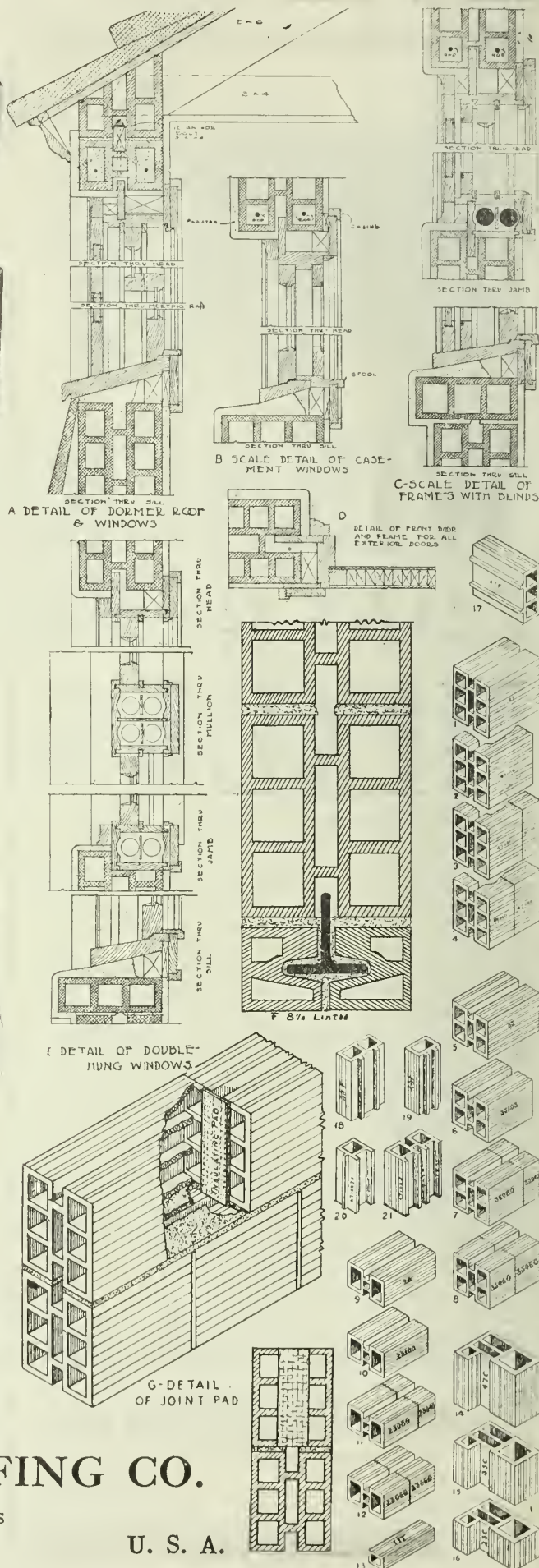
MADE BY

DENISON FIRE-PROOFING CO.

Sales Offices in Principal Cities

MASON CITY, IOWA

U. S. A.





## SPECIAL NORTHWEST OUTLOOK REPORTS.

(Continued from page 27)

be completed in the spring; cost about \$4,000, Bricelyn Improvement Co.; E. A. Lund, village recorder.

**Minn., Clontarf**—Season good for building construction and general business prospects for 1915, good; building outlook, fair; general business outlook, good; the proposed state road is about all the public improvements heard of; C. D. McDermott, village clerk.

**Minn., Dassel**—Past season good for building, public improvements and general business; general prospects for 1915, good; building outlook, fair; residences, 1914, seven, \$30,000; for 1915, one; water works, 1914, \$2,000; the Dassel Lumber Co. is going to build new lumber and coal sheds at about \$3,000; John Crow is going to build an up-to-date hog house, 36x86, 1-story and an addition 16x36, 2-story for feed on second floor and for grinding and cooking on first, to be built of cement and tile; H. E. Swanson, contractor.

**Minn., Deephaven**—Past season not good for building construction; general business, fair; general prospects for 1915, fair; building outlook poor; no new work planned except a \$12,000 addition to school house; the date for bids is not decided yet; H. S. Holcomb, Excelsior, Minn., is clerk of school district; Arthur Dajer, recorder.

**Minn., Duluth**—Building operations in this city attained good proportions during 1914. The records at the building inspector's office show that 1,790 permits were issued during the 12 months for improvements estimated to cost \$2,853,062. Making allowance for the permit of \$1,500,000 issued to the Duluth, Missabe & Northern railroad for its new steel ore dock, in March, 1913, the record of the preceding year was exceeded by \$327,051. Outside of 1910, when the total was swelled by the \$10,000,000 permit taken out by the Minnesota Steel Co., the building permits record was the largest in the history of the city. What is regarded as a most satisfactory feature was the extent of the home-building campaign carried through during the year as shown in the number of permits exceeding the 1913 tally by 285. An extensive program of new construction for this year is assured. Among the projects to be mentioned are the Gowan-Lenning-Brown wholesale grocery plant on Lake av., estimated to cost \$200,000; new armory building to go up on the London road; a family hotel to be built in the central portion of the city at an approxi-

mate outlay of \$150,000, and a bachelors' apartments building on Superior st. near 10th av. E. to cost \$125,000. A number of highclass residences are projected in the east end section, in Congdon Park, Waverly Park and other sections recently placed on the market. Under that category there have thus far been announced homes for G. A. Tomlinson, F. A. Cokefair and G. H. Spencer. Another active season in the building of moderate-priced homes is promised. In that connection architects say they have plans on their tables for several propositions that are likely to go out for figures in the early spring and that the sketches for others are in hand.

**Minn., Excelsior**—Past season for building, fair; public improvements, good; general business, good; general prospects for 1915, good; building outlook, good; sidewalks, 1914, \$300, proposed for 1915, \$500; curbs and gutters, 1914, \$300, proposed for 1915, quite a list; schools proposed for 1915, high school, \$40,000; bids will be asked for in two or three weeks; waterworks, \$23,000; proposed for 1915, none; Harry B. Nistrand, village recorder.

**Minn., Faribault**—Past season for building construction, average; for public improvements, fair; for general business, good; prospects for 1915, good; building outlook, good; curbs and gutters, 1914, \$4,100; for 1915, \$900, contract let; sewers, 1914, \$2,827; proposed for 1915, no plans yet; residences, 1914, fifty-one at \$87,458; total improvements to Dec. 1, 1914, \$383,373; water works, 1914, \$8,321; for 1915, no plans; bridges proposed for 1915, two or three, no plans yet; Methodist Episcopal church in prospect; F. M. McKellip, city engineer.

**Minn., Fergus Falls**—Over \$200,000 has been invested in public and business buildings in the year 1914 and over \$200,000 in residences, garages, barns and other outbuildings—in other words that close to half a million dollars has been spent in building improvements in the city. Contractors report 48 new residences this year and 25 old residences have been made over. It is probably conservative to estimate the number of new residences built this year at 60 and the number of residences rebuilt at 30, thus adding to the city's list of modern, desirable homes something like 90 residences. The showing made by the city this year is most encouraging. It shows that the city is growing rapidly, for in spite of the large number of new homes, many persons are looking in vain for houses to rent or buy.

(Continued on page 31.)

# 1915 Mixer Sensation

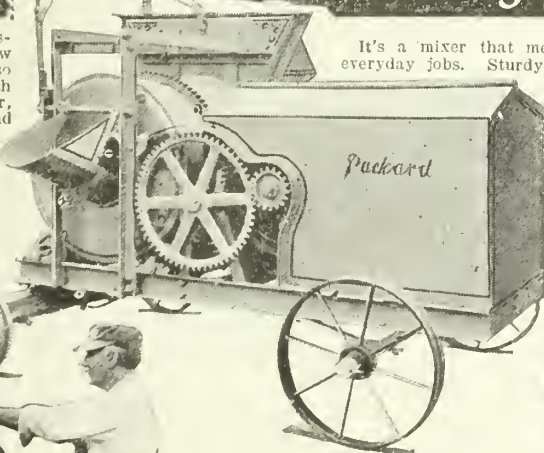
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Cap.

On Steel Trucks 3 H.P. Engine  
Steel Housing Low Barrow Hopper

Has steel housing, low barrow hopper. Can also be equipped with measuring hopper, power loader and a u t o m a t i c water tank.

It's a mixer that meets every possible requirement on everyday jobs. Sturdy, but light in weight. An investment that will pay dividends every day it's used. Nothing like it for the price ever offered. Better than most of the mixers that cost one or two hundred dollars more. Read specifications and description below.

\$185



**SPEED QUALITY**  
**Packard**  
**HAND AND POWER MIXER.**

Sold on 5 Day's Trial---Cash or Terms

Has steel trucks. Runs in wagon tracks. Substantial drum with mixing and remixing action like the large \$2,000 paver. Three horsepower engine. Has low barrow hopper. Steel housing over engine. Exceptionally good for county or township work, for silo builders and general contractors. Sold on five days' trial. Money back if it fails to come up to all claims. No quibbling or argument.

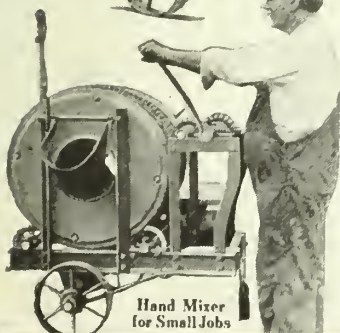
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If you want a hand mixer than can also be used on belt, a mixer that's cheap but good, ask about our Packard Hand Mixer. Address

**CONTRACTOR'S MACHINERY CO.**

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# Bragstad Batch or Continuous Mixer

There is enough money making quality in the BRAGSTAD CONCRETE MIXER to

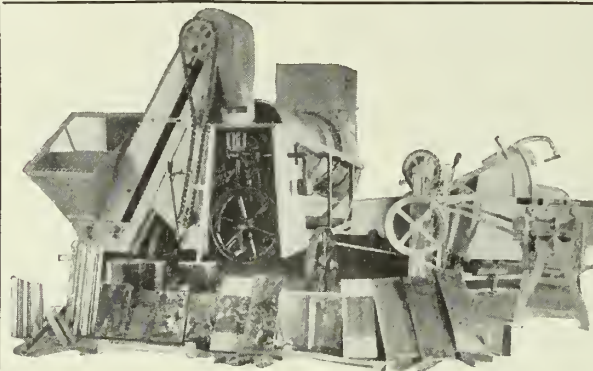
be of real interest to you. This Mixer was made with the profit idea always in mind. The concrete products manufacturer can start his business with one BRAGSTAD MIXER and can then keep on adding the other Bragstad machines as his business grows, until he has a line of machinery that works continuously as a unit—a system that saves rehandling of materials, labor

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**Bragstad Power  
Tamper**

**Bragstad Continuous  
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This line will bear the most careful investigation. The value is there and letters written us by Northwestern contractors prove this. We have printed these letters and facts and figures in our Cat-



Complete Unit Outfit, including mixer, automatic tamper, and concrete block machine (capacity 25 10-inch blocks per hour) with full set attachments.

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**STRUCTURAL STEEL**

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**BUILDING MATERIAL**

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**SAFES & VAULT FRONTS**

**Haakinson & Beaty Co.**  
SIOUX CITY, IOWA



## SPECIAL NORTHWEST OUTLOOK REPORTS.

(Continued from page 29)

**Minn., Foley**—Past season good one for building and general business; general prospects for 1915, good; schools, 1914, \$13,000; addition to high school; residences, 1914, 10, \$1,000 each; P. R. Gamroth, village clerk.

**Minn., Forest Lake**—Past season good for building, public improvements and general business; general prospects for 1915, good; building outlook, good; residences, 1914, thirty-five, \$50,000; garage to be built in spring, basement already done, \$3,000; expect to have electric light, transmission line from St. Croix Fall; A. F. Walker, village recorder.

**Minn., Gibbon**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; residences, 1914, six, \$24,000; proposed for 1915, one in spring; one large store building built and two places remodeled and new fronts added during 1914; Johnson & Johnson will erect a garage in spring; C. W. Carlson, village clerk.

**Minn., Glenwood**—J. H. Furtney is having constructed the foundation for a seven-family flat on the lake shore. The building will be constructed of steel and concrete exclusively and will be absolutely fireproof. The proposed summer hotel which will be built in the spring has aroused interest in the development of our summer business possibilities and several people are contemplating building cottages in the spring. Mr. Dubeau, of the New Minton hotel, who has built a handsome home this year on Minnesota av., expects to build a number of cottages. Gid Norlander is contemplating building a few cottages on his property on the north shore of Lake Minnawaska. Strom Bros., who recently retired from farming, are also considering the possibilities of a summer cottage business. Kroonblawd and Aune, who recently purchased several acres of lake shore property, will also make several improvements on their newly acquired property. Prominent in the proposed improvements for the coming year is the new high school building. An architect has been secured and the board of education expects to solve the problem of a site in the near future. Last year was a good one for building, especially of cottages and residences.

**Minn., Grand Rapids**—Building improvements of 1914 amounted to \$125,000, including business and residence buildings; prospects for 1915 are good.

**Minn., Hallock**—Past season good one for building and general business; prospects for 1915, fair; there is some talk of electric light for the village; A. M. Nelsesturn, village clerk.

**Minn., Hazel Run**—Past season good for building and public improvements; general prospects for 1915, fair; residences, 1914, twelve, \$30,000; bridges, proposed for 1915, cement, two, value and time of bids I don't know; I do not know of any prospects further for 1915; I. G. Wilson, recorder.

**Minn., Hinckley**—A good showing in building was made last year with one hundred buildings in and near town; still larger growth in prospect for 1915.

**Minn., Hutchinson**—1914 breaks the record for improvements in Hutchinson. The year 1912 has been the banner year but 1914 beats it. Last year (1913) the total was \$93,900. No previous year in the history of Hutchinson—even including 1886 when the coming of the railroads boomed the town—had equalled either of those years. But now comes the year 1914 with improvements to the value of \$158,606.

**Minn., Keewatin**—Past season for building, fair; general prospects for 1915, fair; building outlook, fair; general business, fair; paving, 1914, \$55,000; sidewalks proposed for 1915, \$5,000; water works, 1914, \$40,000; C. W. Estrum, village clerk.

**Minn., Kennedy**—Past season good for building and public improvements and general business; prospects for 1915, good; building outlook, good, general business outlook, good; sidewalks, 1914, \$800; for 1915, limited; schools, 1914, \$14,000; residences, \$3,000; proposed for 1915 two; for 1915 church bids about April; Thomas Anderson, village clerk.

**Minn., Le Sueur**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, fair; residences, 1914, seven, \$17,000; the city has just purchased twenty acres of park property and will, no doubt, improve it some during 1915; a Catholic church may be built, but nothing certain; J. A. Morgan, city clerk.

**Minn., Long Lake**—Past season good for building; public improvements, fair; general prospects for 1915, good; building outlook, good; bridges, 1914, \$10,000 (railroad); G. C. Churchill, village clerk.

**Minn., Luverne**—Past season good for building; prospects for 1915, very good; sidewalks, 1914, 16 blocks; for 1915, uncertain; curbs and gutters, 12 blocks; for 1915, uncertain; sewers, 1914, one-half mile; for 1915, uncertain; residences, 15,

\$50,000; for 1915, uncertain; public buildings, \$20,000; 1915, uncertain; bridges, 1914, \$20,000; 1915, uncertain; 1914, two garages, two business buildings; it is yet too early to approximate 1915; nothing projected except a theater; W. E. Greene, architect, Luverne.

**Minn., Madison**—Past season good for building, public improvements and general business; general prospects for 1915, good; county ditch proposed for 1915 at cost of about \$12,000; schools, 1914, \$30,000; residences, 1914, twenty, \$40,000; 1915, about the same; public buildings, armory for national guard about \$16,000, Capt. M. A. Larson in charge; Norwegian Lutheran school, ladies' dormitory built at cost of about \$20,000, (1914); a Norwegian Lutheran church will be built here in 1915 at a cost of about \$20,000; contract let to G. Herriges of this place; same man rebuilt Catholic church here this year at cost of \$14,000, after fire damage; A. G. Shogum, county auditor.

**Minn., Madison Lake**—Past season good for building construction and general business; prospects for 1915, fair; building outlook, fair; John Casper just completing a 50x100 concrete and brick modern garage; crops have not been good here and next year will not see much new work; F. B. Knoff, village clerk.

**Minn., Mankato**—Past season good for buildings, public improvements and general business; general prospects for 1915, good; building outlook, good; paving, 1914, \$19,141; sidewalks, \$3,663; proposed for 1915, concrete, about \$3,000; curbs and gutters, 1914, \$5,330; proposed for 1915, concrete, about \$5,000; sewers, 1914, \$10,556; proposed for 1915, indefinite; schools, 1914, none; residences, 1914, fifty-seven, \$175,550; proposed for 1915, sixty; public buildings, 1914, \$45,075; proposed for 1915, indefinite; water works, \$2,624; H. E. Blomquist, city engineer, city hall, Mankato.

**Minn., Mankato**—Past season fair for building; public improvements, fair; for general business, good; general prospects for 1915, good; building outlook, good; bridges, one for 1915, estimated cost \$120,000; during the year 1914, City Engineer Blomquist issued 127 building permits, as follows: 57 for residences, valued at \$175,550, 11 for business blocks, at \$45,075, 43 for remodeling and additions, valued at \$27,675, 16 for garages, valued at \$6,375, grand total of buildings, \$254,675; water mains 1914, 2,426 feet; sewers, sanitary, 1,572 feet; storm, 4,396 feet; paving, 17,996 yards; curb and gutter, 11,586 feet; Albert Schippel, architect.

**Minn., Mankato**—Nearly one hundred residences were built in Mankato, Minn., during the year 1914, besides many remodeled and enlarged. Other improvements were a dozen store buildings built or enlarged; the armory completed, Hubbard Milling Co.'s cleaning house rebuilt and steel elevators built on concrete foundation; new Immanuel Lutheran church completed; addition to St. Joseph's hospital built; Cudahy Bros. Co., stock yards and shipping station, etc.; more than a mile of concrete paving, etc.; improvements projected for 1915: Probably a hundred houses to be built, Hubbard Milling Co.'s steel elevator to be enlarged by building half a dozen more tanks; Cedar Rapids, Iowa, Oil Co., Minnesota headquarters and storage tanks, \$30,000; addition to several stores, etc. It is believed that fully as much building will be done in 1915 as in 1914, and probably more. Local dealers in building material, and building firms, are very optimistic; E. F. Searing, secretary, Commercial Club.

**Minn., Mapleton**—Improvements here amounted to \$60,000 last year.

**Minn., New Prague**—Season has been a good one for building construction; not for public improvements; for general business, good; general prospects for 1915, good; building outlook, good; sidewalks, 1914, \$4,000; curbs and gutters, 1914, \$500; sewers proposed for 1915, construction under consideration at a cost of about \$20,000; school, 1914, \$27,000; residences, 1914, \$5,000; city clerk.

**Minn., New Richland**—A number of residences will be built in 1915; total improvements last year, \$70,725, including theater, elevator, garages and bank.

**Minn., New Ulm**—The new buildings of last year in New Ulm cost \$600,000; many residences were built but there are still not enough.

**Minn., Owatonna**—Owatonna has added much to the metropolitan appearance of the city during the past year by the erection of many handsome new public buildings, business blocks and residences. In fact, it was a banner year in building operations for Owatonna, which exceeded even its splendid record of 1913.

**Minn., Pipestone**—A good deal of building is planned for 1915; a total of \$150,000 was spent in 1914, on building and \$20,000 for concrete paving and a white way.

(Continued on page 33.)



# THE BADGER ROAD BUILDER

## Street Paver and General Purpose Mixer

The Marvel of 1914.

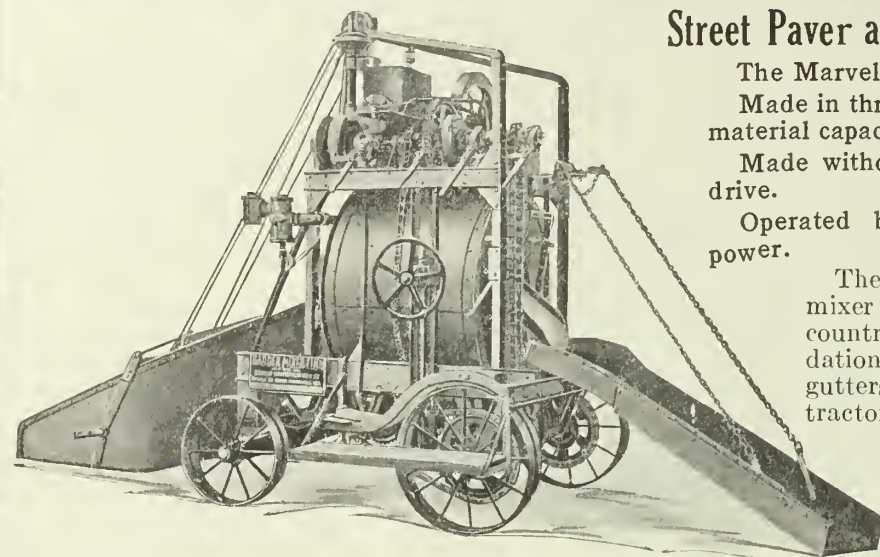
Made in three sizes, 10, 15 and 20 cu. ft. loose material capacity.

Made without traction drive and with traction drive.

Operated by gasoline power or with steam power.

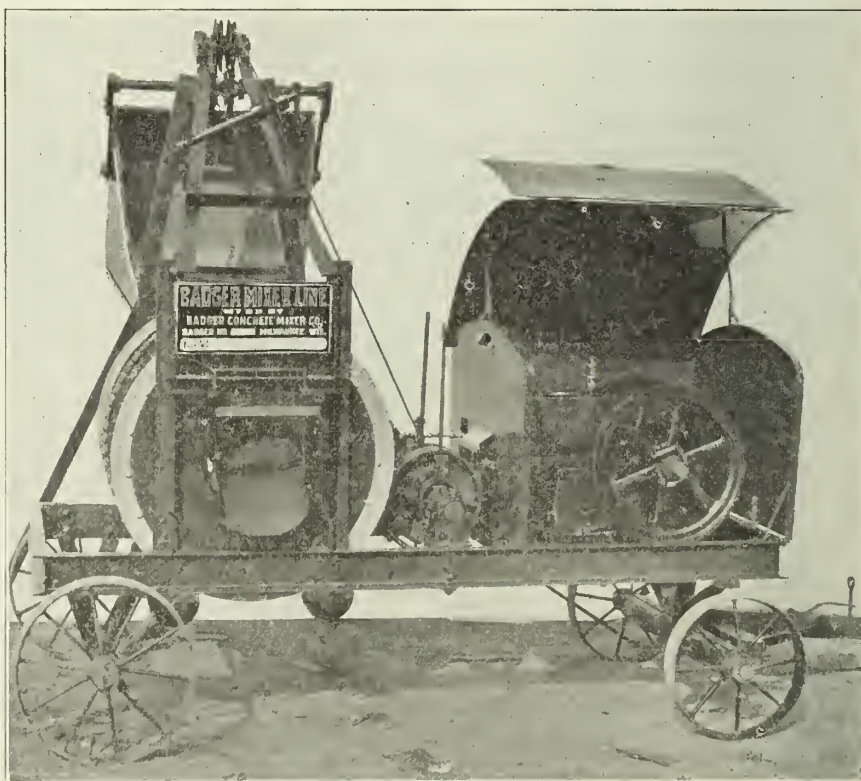
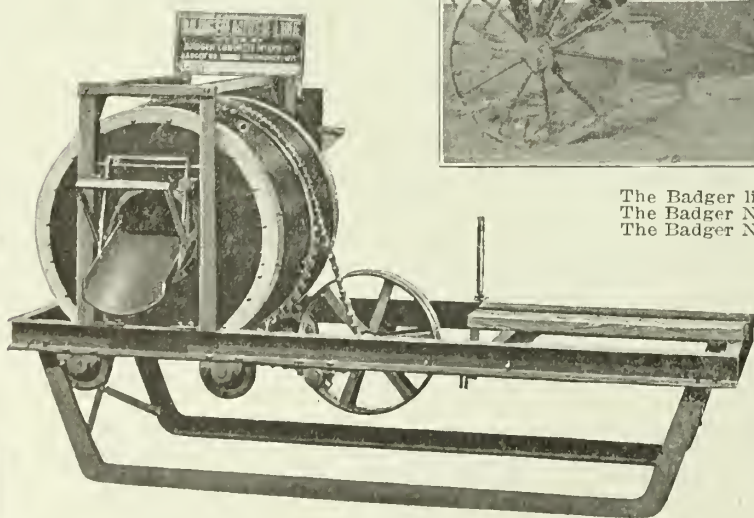
The only all around general purpose mixer on the market today. Will build the country roads, pave the streets, fill foundation walls, pave sidewalks, curbs and gutters, and do all of the work of the contractor.

Light of weight, easy to pull about over country roads, yet very strong, durable, large capacity and most efficient.



The Badger No. 7 is a 7 cu. ft. loose material capacity mixer designed for bridges, culverts, sidewalks, curbs and gutters, small foundations and a handy all around size mixer, well built and very strong. →

The Badger No. 4 is the farmers permanent friend. It is a 5 cu. ft. all steel drum, operated by the farmers own 3 h. p. engine, or we can furnish the engine for him at an additional cost. ↓



The Badger line of mixers consists of:

The Badger No. 4, a five cubic foot mixer on skids.

The Badger No. 5, a five cubic foot mixer on trucks with hatch hopper.

The Badger No. 7, a seven cubic foot mixer on trucks with power loader.

The Badger No. 9, a ten cubic foot mixer with charging spout or power loader.

The Badger No. 10, a ten cubic foot mixer, end charging and end discharge, batch hopper and power over drum.

The BADGER ROAD BUILDER No. 11, an eleven cubic foot mixer, end power loader and end discharge, power over drum.

The BADGER ROAD BUILDER No. 15, a fifteen cubic foot mixer, end power loader and end discharge, power over drum or steam power.

The BADGER ROAD BUILDER No. 20, a twenty cubic foot mixer, end discharge, end power loader driven by steam power, and large mixer for large contractors.

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N. W. Agents. Write for Catalogue and Prices  
Pioneer Buildnig St. Paul, Minn.



**SPECIAL NORTHWEST OUTLOOK REPORTS.**

(Continued from page 31)

**Minn., Plummer**—Past season good for building construction; for public improvements, fair; general business good; prospects for 1915, fair; building outlook good; general business outlook good; school proposed for 1915, new consolidated possibly to be built in 1915; new bridge will possibly be Dermott, village clerk.

**Minn., Red Wing**—1914 has been one of the greatest years for building operations in the city's history. While there have been few buildings of great size constructed there have been dozens of dwellings, minor structures and additions made, besides improvements to a large number of places about town.

**Minn., Red Wing**—The city of Red Wing, Minn., will pave 14,000 square yards with creosote blocks in year 1915 by day labor and build a large segment block sewer by day labor; A. E. Rhame, city engineer.

**Minn., Redwood Falls**—Past season good for building, public improvements and general business; general prospects, 1915, good; building outlook, good; sewers, 1914, \$8,400; residences, 1914, thirty, \$105,000; public buildings, 1914, \$22,000, (Catholic church); water works, 1914, \$3,000; proposed for 1915, the present high school building is far too small and an addition or a new building is being discussed; some action will probably be taken soon; some fair sized county tile ditches are in preliminary stages and will be open for bids during 1915; one about \$30,000, another \$18,000, another \$15,000; B. Jas. Reynolds, city engineer.

**Minn., Revere**—Past season good one for building, public improvements and general business; general prospects for 1915, good; building outlook, good, general business outlook, good; sewers, 1914, \$4,000; proposed for 1915, water tank; schools, 1914, \$6,000; F. B. Grinde, city clerk.

**Minn., Rice**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook good; sidewalk proposed for 1915, cement, 150; residences, 1914, \$3,000; cannot tell as yet what will be done next year, but some improvements will be made; Julean V. Dayks, village recorder.

**Minn., Rochester**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; paving, 1914,

\$65,000; proposed for 1915, \$20,000, left over to be completed in 1915; sidewalks, 1914, \$3,000; curbs and gutters, 1914, \$10,000; proposed for 1915, \$4,000; sewers, 1914, \$14,000 sanitary, \$9,000 storm; public buildings proposed for 1915, armory; S. C. Utton, city engineer.

**Minn., Robbinsdale**—Past season not good for building nor for general business; prospects for 1915, good; building outlook, good; paving, proposed for 1915, not definite; sidewalks, proposed for 1915, \$1,000; residences, 1914, \$30,000 to \$40,000; proposed for 1915, not known at present time; Geo. S. Nash, village clerk.

**Minn., Sleepy Eye**—Best building year in history of town is shown by record of 1914; total, \$500,000.

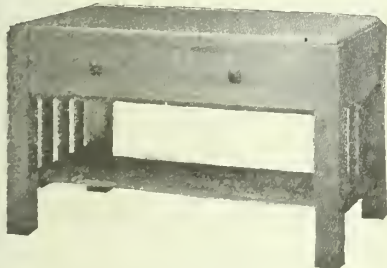
**Minn., Springfield**—1914 was one of Springfield's best building years; total was \$237,745, with the \$100,000 improvements for the A. C. Ochs Brick & Tile Co., heading the list; St. Raphael Catholic church, being built, \$45,000. Prospects good for 1915.

**Minn., Springfield**—The county commissioners appropriated the sum of \$30,000 for state roads in 1915. Of this amount, however, it should be remembered that the state pays 60 per cent and the county 40 per cent. The schedule: No. 1 or rural highway No. 54, being the state highway commission's first installment on contract, \$3,000; No. 2—New Ulm-Madelia road, including a new bridge near Searles, \$6,000; No. 3—New Ulm-Hanska road, \$3,000; No. 4—North of Sleepy Eye, \$2,000; No. 5—South of Sleepy Eye, \$2,000; No. 6—Town line between Prairieville and Home, \$1,500; No. 7—South of Evan, \$2,000; No. 8—Springfield-Comfrey road, \$3,000; No. 9—Springfield-Stately road including for a new bridge near Dotson, \$4,500; No. 10—East of Comfrey joint state road Cottonwood, Watonwan and Brown counties, \$1,500.

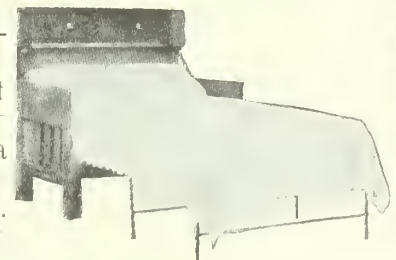
**Minn., Springfield**—Past season good for building, public improvements and general business; general prospects for 1915, good; building outlook, good; general business outlook, good; sidewalks, 1914, \$2,000; curbs and gutters, 1914, \$500; sewers, 1914, \$40,000; proposed for 1915, \$900; residences, 1914, eighteen, \$70,350; proposed for 1915, three in spring; public buildings, 1914, \$49,500; two churches; Jos. Kreitinger, architect.

(Continued on page 38.)

# The Famous Table-Bed



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First—There is the shape of drum which is a tapered cylinder with cone end. This gives a combination cone and cylinder mixing action—reduces size of drum—number of paddles—cuts out buckets—increases mixing area, mixing speed and quality of mixed material.

Second—Tilted drum permits large open feed end—eliminates baffle paddles—prevents slopping—adds gravity in mixing—requires less power to run—allows for crowding and gives the **Northwestern the fastest discharge on market.** Handles grouting mixture without spilling.

Third—Provided with low charge—large feed opening—reduces time for loading, saving 5 to 30 seconds per batch over other methods—hip high loading. The man that hires help knows what this means.

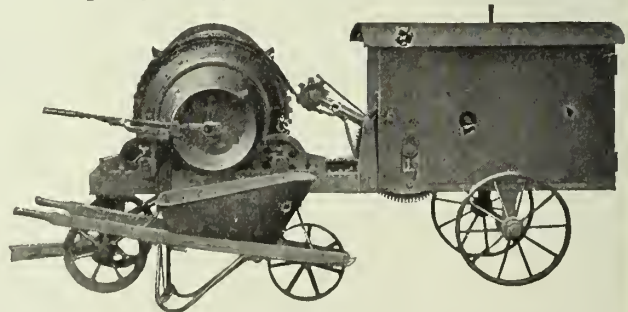
Fourth—High discharge to accommodate carts or wheelbarrows without interfering with operator.

Fifth—Closed type, lever-controlled discharge—dumps clean in 10 seconds or three revolutions of drum. Specially designed door under lever control—positive in action—no guess work—closed end prevents slopping—acknowledged the best discharge method ever invented—A Northwestern patented feature.

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**Northwestern Steel & Iron Works**  
512 BALL STREET

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# Minneapolis Builders' Exchange Progress

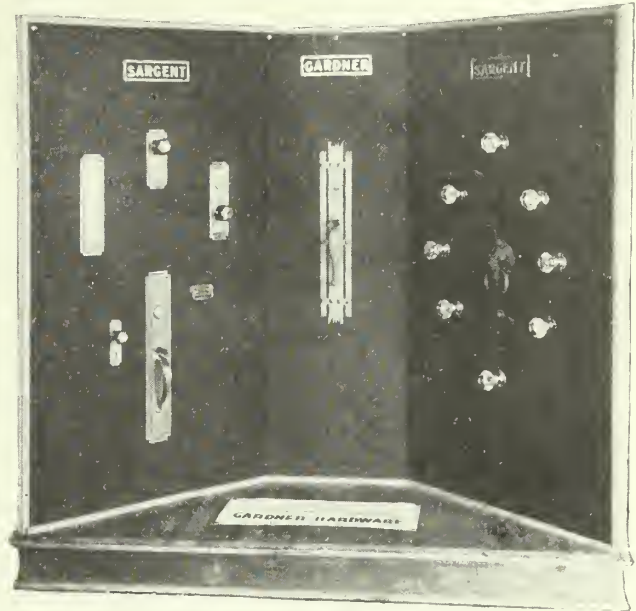
The Minneapolis Builders' Exchange has been advancing steadily since its organization but it has made more progress within the last twelve months than ever before. It has developed into an institution, a real center for the building interests. The chief step in this improvement was the recent installation of permanent exhibits in the exchange headquarters, with office facilities.

Increase in the growth of the exchange increased the number of people making use of it until its recorder showed that a great number of architects and contractors were visiting the rooms and looking to the organization for information. Out-of-town builders and architects found the exchange especially useful. So it became apparent that it would be a great convenience to have a permanent exhibit of materials; and this developed the fact that it would be convenient to have the representatives as handy as possible. This meant that they should have offices in the exchange. Extensive alterations in the rooms were made and arrangements started for a permanent builders' exhibit.

There are now sixteen spaces like that shown in the accompanying cut of the Gardner Hardware exhibit; and twenty-four office or display spaces like that shown in the picture of the Hydraulic Pressed Brick Co. exhibit. These office spaces are square, roomy, conveniently arranged on a slightly raised floor area around the big main room. The other spaces are about the pillars in the center of the room. Each office space has a telephone. The rental is small.

Evidence of especial interest in the displays which form the permanent exhibit is shown in the arrangements by the exhibitors to make them instructive as well as attractive. The Hydraulic Pressed Brick Co. exhibit is an excellent example of what can be done in one of these spaces at the exchange. A wall of different kinds of brick in different bonds is laid up on one side; opposite is a low wall of tile with a seat running the full length made of tile. On the front side is a wall, and a gateway and post ornamented with a terra cotta bowl. The exhibit shows effectively the results of using different kinds of bonds in brick work. Other displays are intended to show the right and the wrong way of building or installation.

The Mason City Brick & Tile Co. and Stremel Bros. will build a small house of hollow tile, using Stremel Bros. doors and windows. It will be an example of a fireproof structure



GARDNER HARDWARE EXHIBIT.

and also a weatherproof building and show especially the details of construction around the doors and windows.

The Atlas Portland Cement Co. will devote their entire exhibit to the display of pure white cement and stucco panels.

The W. S. Nott Co. exhibit is devoted to the proper use of linoleum as an insulator. On the booms of the booth will be shown samples of different floor coverings, such as cork asphaltum, and linoleum over this roof will be a canopy cover with asbestos shingles.

The Canton Steel Ceiling Co. will have a complete room in their booth with canopy top. The walls as well as the ceiling will be covered with steel.

The North Star Varnish Co. has had panels prepared showing the proper use of varnish on different kinds of wood.

The U. S. Radiator Co. will show a complete hot water heating plant with heat regulator, and illustrate the proper way to install.

Geo. H. Tennant Co. will have an exhibit of flooring of all descriptions and similar exhibits are to be shown by the Tozer Lumber Co. and the Malone-Bovey Co.

Oscar F. Simonds will show a full line of metal weather strips and metal window screens.

The Pioneer Granite Co. is installing an exhibit showing granite in process from the quarry to the polished state.

Kasota Stone will be exhibited by Babcock & Wilcox the use of stone for interior decoration with panels giving examples of wainscoting and ornamental cornice.

The hardware line of exhibits represented by the Gardner Hardware Co., W. K. Morison and the Warner Co., will have displays arranged so as to change weekly, showing the latest productions in building hardware.

Geo. A. Turner and the Pullman Automatic Ventilator Co. have interesting exhibits. The latest devices are shown in ventilating systems.

The Crown Iron Works will have a complete display of ornamental iron produced at their plant.

The Minneapolis Builders' Exchange comprises besides its headquarters and the permanent exhibit and offices, a free labor bureau, where workmen may register. There is a legal and credit department occupying and adjoining suite of rooms with J. C. Melville, attorney in charge, and offices are provided in the rearranged headquarters for the master plumbers and electrical contractors' association, plastering contractors and master builders.

One big advantage of the Minneapolis Builders' Exchange for itself and particularly for the builders' exhibit is the central location of the rooms. They are at 17 S. 6th, a few doors from Hennepin, in the heart of the business district.

Looking into the future along the lines of modern progress adopted by the exchange, it becomes evident that at no distant day this institution will be found occupying an entire building, or large portion of it, devoted to the building trade. A project of this kind has been under consideration for some time, and it will remain on the exchange's list of live problems until it is successfully solved.



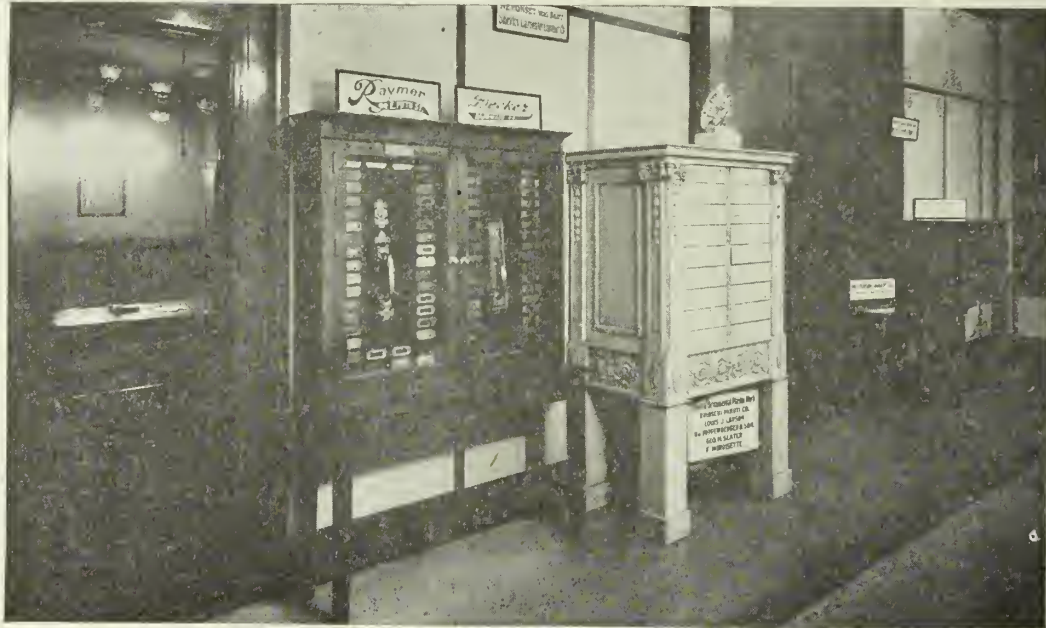
DISPLAY BY HYDRAULIC PRESSED BRICK CO.



# The St. Paul Builders' Exchange Exhibits

About a year ago the Builders' Exchange of St. Paul, believing that there was a demand for a permanent exhibit of building materials where not only its members but also owners, architects and others interested in that subject could secure information relative to building materials, and also see the same displayed in a practical way where helpful ideas could be obtained, added to its quarters in the Ryan building two additional rooms and established an unique, artistic, as well as a practical, exhibit department.

work and interior finish line have a joint exhibit which consists of a sabinet twelve feet long, three feet wide, and six feet high, with a double row of shelves in which are shown one hundred panels of various woods used for the interior trim of buildings, and a like number of panels of various trim used for flooring purposes. These panels are fifteen inches by thirty inches, being of sufficient size to show the grain and other characteristics of the different woods. The firms in the varnish and wood filler lines finished these panels with



A VIEW OF PERMANENT EXHIBIT DEPARTMENT.

Departments for the exhibit of building materials have been established in various cities of the country from time to time in connection with builders' exchanges with varying degrees of success. The St. Paul exchange after an investigation of the question departed from the general plan used in other cities and worked out its department along somewhat original lines, having in view the utilization of the space to the best possible advantage, and presenting the exhibits

the various stains and finishes used on interior wood trim. In this cabinet the owner, architect or contractor has, therefore, before him every wood and every finish known in this part of the country.

The firms in the stone and granite lines joined in a display of every kind of building stone used in Minnesota. This exhibit is in the form of a cabinet made of Bedford stone in which are shown six-inch cubes of all stones and



ONE OF THE CABINETS CONTAINING A GREAT MANY SAMPLES.

in a form that would be of the greatest practical value. The St. Paul exhibit, therefore, differs from other building material exhibit departments inasmuch as wherever it was practical to do so firms in the same line of business united in joint exhibits, not of the product of any one firm or factory, but in the display of materials produced in their particular line of trade. For example, eleven firms in the wood-

granites in the various finishes used on stone and granite work. The firms in the plaster lines also united in a joint display in the form of an artistic ornamental plaster cabinet in which are shown panels ten inches by fifteen inches of every finish of plaster and stucco used in the interior or on the exterior of buildings. The firms in the glass lines likewise united in a display of every kind of glass used in



buildings. Those in the hardware lines in an exhibit showing the various finishes of hardware, some fifty in number. Individual exhibits of various kinds of cast stone products, ornamental iron, marble, asbestos, asphalt, slate and other shingles, gypsum tile, stucco and other forms of construction, fire doors, furnaces, etc., are also displayed.

Another distinctive feature is the fact that the floors, walls, windows, etc., have been utilized by exhibitors for displaying their respective materials. The floors are of the stonewood and torgoment type. The walls are covered with

the work of not one firm in any one line but of all.

A complete catalogue file of building material and appliances is also maintained in the department.

The department is open to the public during the office hours of the exchange. An attendant is in charge to answer inquiries and to furnish information.

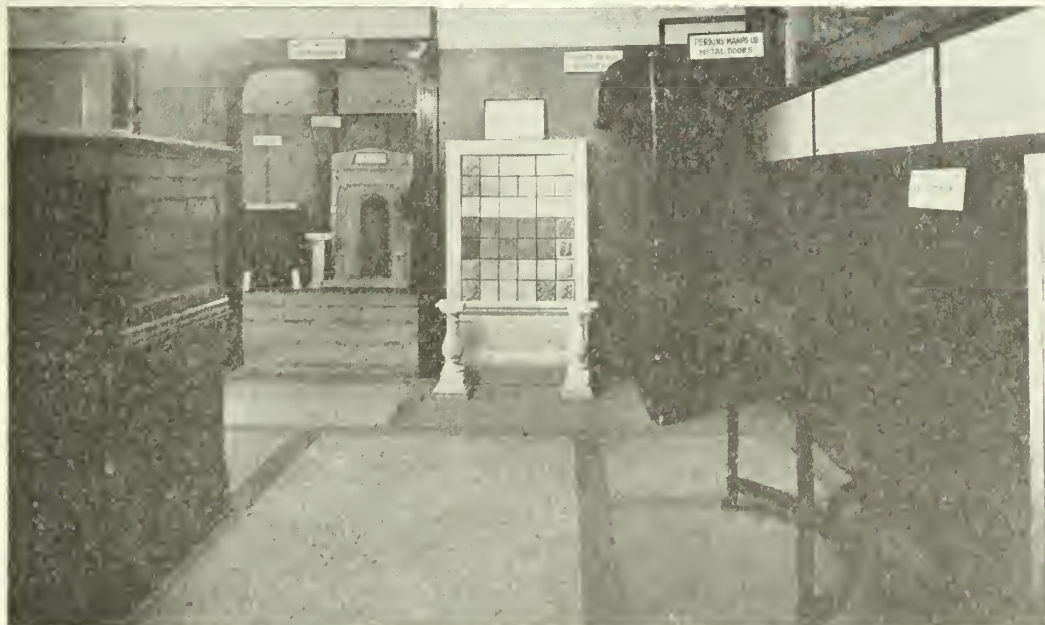
The following were exhibitors: Gribben Lumber Co., S. Berglund Lumber Co., St. Croix Manufacturing Co., Brooks Bros., Stillwater Manufacturing Co., Villaume Box & Lumber Co., Burns Lumber Co., Osgood & Blodgett Manufacturing Co.,



ONE OF THE ADVANTAGES HERE IS THE EASE OF SEEING MANY EXHIBITS.

different makes of wallboard, various sections of which are decorated in oil or water colors, others papered and frescoed in various forms, all harmonizing. Art glass casement windows comprise the exhibit of one of the glass companies, while other windows have metal weatherstrips and sash frames calked to show the use of those materials. The lighting fixtures used in the rooms are also exhibits of members.

Capital City Lumber Co., Pittsburgh Plate Glass Co., Bazille & Partridge, Noyes Bros. & Cutler, Twin City Varnish Co., North Star Varnish Co., Patterson-Sargent Co., W. C. Whitehead, Breen Stone Co., W. H. Ulmer, C. H. Young Co., Noltling & Kernkamp, Jas. A. Young & Sons, Clark & McCormack, Wright, Barrett & Stillwell, Northwestern Lime Co., F. G. Leslie Co., Keasbey-Mattison Co., St. Paul Cement



ANOTHER VIEW SHOWING ORNAMENTAL STYLE OF EXHIBITS.

All space is allotted to members free of expense. There are forty-seven exhibitors up to the present time.

The department furnishes a place where persons can secure information not only of the kinds of building material, but also see the actual finished product as same would appear in a building. There is nothing sold in the department and there is no one to solicit business from visitors, the object being to give information in a practical way so that those interested in building may have the benefit of

Works, Cast Stone Co., Universal Portland Cement Co., American Torgoment Flooring Co., Minnesota Pama Stone wood Co., Builders' Material Co., East Side Lime & Cement Co., Adam Decker Hardware Co., Raymer Hardware Co., Drake Marble & Tile Co., Twin City Gas Fixture Co., H. W. Johns-Manville Co., Brioschi-Minuti Co., Metal Weather Strip Co., Louis J. Larson, Wm. Poppenberger & Son, Twin City Iron & Wire Works, Geo. H. Slater, F. Morrisette, Perkins Manufacturing Co., Shevline-Carpenter Lumber Co.



## SPECIAL NORTHWEST OUTLOOK REPORTS.

(Continued from page 33)

**Minn., Staples**—Past season not good for building; public improvements, good; general business, good; general prospects for 1915, good; building outlook, slim; general business outlook, good; sidewalks, 1914, \$600; curbs and gutters, \$200; sewers, 1914, \$2,500; public buildings, 1914, \$4,000 (jail); water works, 1914, \$800; P. W. Findsen, city clerk.

**Minn., St. Cloud**—Total improvements last year about \$1,000,000; in 1913, \$711,447; in prospect for 1915: St. Cloud-Minneapolis Traction road, Daniel's big 3-story brick, normal school dormitory, new high school building, improvement of city parks, completion of scenic road, Terrahe business block, addition to Great Northern shops, new wing for reformatory, paving of St. Germain st., paving of 5th av., paving of 8th av., paving of Breckenridge av., from 300 to 500 new homes, start of Lake George blvd., new Presbyterian church, Spaulding garage, Petters' business block, addition to Lincoln school, Polish church library and gymnasium, extension of street car line, Melrose Granite Co., increase in electric power, building of Sauk Rapids dam.

**Minn., St. James**—Building improvements in and near town amounted to more than \$150,000 in 1914; many new dwellings in town.

**Minn., Tyler**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; residences, 1914, six, \$18,000; public buildings, 1914, one, \$5,000; building of hospital is being considered by Dr. A. L. Vadheim, Tyler, Minn.; John Johnson, village recorder.

**Minn., Virginia**—More than \$1,000,000 was spent in building improvements in Virginia during 1914. Over 200 homes were built, while several new business blocks were erected on Chestnut st. The First National Bank, a 5-story structure, represents an investment of \$125,000. The Roman block cost \$30,000 and the Ormonde hotel annex a like amount. Twenty thousand dollars was spent on the Johnson block and \$15,000 on the Madden flats. The Southside school cost \$70,000. Three new additions to the city were platted. The addition of the 6-foot pipe line to the sewer system cost the city \$110,000. Forty-five thousand dollars was paid the Lawrence-McCann Co. of Eveleth for paving work. Creosote block and reinforced concrete paving were used. The curb and gutter work amounted to \$11,163.05. The cement sidewalk bill was \$20,201.58. The gas plant was built at a cost of \$50,000, while the completion of the purification plant will mean an investment of \$78,000. The new million-gallon reservoir cost \$17,898.

**Minn., Ulan**—Tax levy for road work, Clay county, 1915, \$25,000.

**Minn., Wabasha**—Past season good for building, public improvements and general business; prospects for 1915, good; sewers proposed for 1915, \$12,000; residences 1914, five, \$12,000; water works, 1914, \$40,000; there are several dwelling houses spoken of for construction in 1915; J. M. Schouweiler, city recorder.

**Minn., Walker**—Past season good for building, public improvements; general prospects for 1915, good; bridges, \$6,000; 150 miles state rural highway to be built during 1915; 5 miles of ditching; J. P. Byhre, ex-county auditor.

**Minn., Warroad**—Among many improvements during 1914 are: City hall, water and light system, high school, \$25,000 hotel, and new Canadian Northern station, \$20,000; two miles of cement walk, sewerage system. E. M. Heimbach, city attorney.

**Minn., Waseca**—Total improvements, 1914, \$183,711—a good showing; paving, \$8,700; sewers, \$2,500; residences, \$125,000; sidewalks, \$1,350.

**Minn., Willmar**—The long list of building operations here last year amounted to \$500,000 and includes bank, plants, garage, theater, Masonic temple, hospital and many residences.

**Minn., Willmar**—Past season good one for building, public improvements and general business; general prospects for crete; sewers, 1914, \$5,000; residences, 1914, about sixty, average \$2,700 to \$3,000; proposed for 1915, several; Elks' building \$40,000, W. O. Johnson, Clerk; Tribune printing building, \$12,000, V. Lawson, owner; county ditch No. 32, dredge and tile, estimated \$80,000; several residences; possibly new county jail; S. Nelson, county auditor; J. A. Rowat, city engineer.

**Mont., Bozeman**—Last year was fair for building but 1915 brings good prospects; completion of Y. M. C. A. building, \$65,000; two or three business buildings, \$150,000; engineering hall, state college, may be started this year; new building for Commercial National Bank may be built this year; Masonic Temple may be built this year; prospects for paving several streets. Wm. G. Alexander, building inspector.

**Mont., Bozeman**—Past season fair for building; good for general business; building outlook, fair; paving, 1914, \$90,

000; proposed for 1915, \$100,000; sidewalks, 1914, \$12,000; proposed for 1915, \$12,000; curbs and gutters, 1914, \$8,000; proposed for 1915, \$8,000; sewers, 1914, \$2,000; proposed for 1915, \$4,000; schools, 1914, \$70,000; one proposed for 1915, nothing definite, parochial school possible; residences, 1914, eighteen, \$70,000; public building proposed for 1915, Federal building, bids opened Jan. 2, about \$160,000; water works, 1914, \$2,000; proposed for 1915, \$4,000; for 1915, four 1-story stores, moving picture theater, nothing definite on any of them; Fred F. Willson, architect.

**Mont., Butte**—Among numerous large improvements is a \$25,000 parish house and gymnasium for the Episcopal parish of St. John. Rev. C. F. Chapman, pastor. Funds being raised.

**Mont., Butte**—Building permits for 1914 amounted to \$623,000, including Washington school, \$125,000; numerous flat buildings were erected. Report of Building Inspector Van Horn shows April and May are the big building months with February and March next best.

**Mont., Deer Lodge**—Past season not good one for building or public improvements; general prospects for 1915, good; building outlook, medium; sewers proposed for 1915, 675 feet 8-inch; schools, 1914, none; proposed for 1915, \$35,000 high school; public buildings, 1914, \$10,000; H. B. Grant, city engineer.

**Mont., Glasgow**—Present indications are that much progress will be made during 1915 on the two federal irrigation projects which are important adjuncts to the prospective larger development of Glasgow's money-creating natural resources. There has been recommended to congress, by the secretary of the interior, an appropriation of \$611,000 for the Milk river project and \$490,000 for the St. Mary's reservoir while the appropriation asked for carrying on reclamation work on the Fort Peck Indian reservation lands is \$346,225. There are assurances in these requests, as the state's congressional delegation views the outlook, that it is the purpose of the national administration to do all it can in 1915 to get the Milk river project in shape for the delivery of water during the summer, in which circumstance it is expected that irrigation supply would probably be available to the land holders in the valley contiguous to this city in the spring of 1916. Many thousands of fertile acres of this valley are expected to pass into yield soon after the water comes into the canals, and reasonable assurance exists that the location of many hundreds of settlers upon these areas will, within a few years, operate influentially and rapidly for Glasgow's growth and greater importance commercially.

**Mont., Glendive**—1914 was a good year for construction and improvements, the total amounting to \$350,000; several miles of cement walks; new school, \$60,000; new city hall, being completed, \$35,000; new residences, \$20,000.

**Mont., Great Falls**—Past season good for building construction, public improvements and general business; general prospects for 1915, fair; building outlook, fair; paving, 1914, \$230,292; proposed for 1915, about \$60,000, bitulithic, contracts let; sidewalks, 1914, \$81,128; proposed for 1915, bids Jan. 19, amount about \$10,000; curbs and gutters, \$55,047; proposed for 1915, bids Jan. 19, 1915; sewers, 1914, \$29,296; proposed for 1915, about the same; residences, 1914, one hundred twenty-seven, \$327,415; public buildings, \$157,775; water works, 1914, \$12,025; proposed for 1915: Park hotel, \$250,000; Rainbow hotel annex, \$125,000; Y. M. C. A. building, \$125,000; brick and tile plant; additions to two hospitals, approximately \$50,000 each; several warehouses and blocks are proposed; M. L. Morris, city engineer.

**Mont., Helena**—Building work has been good the past year; the new buildings erected and completed are the Catholic cathedral, costing about a half a million dollars which has been under construction for several years, a large central public school building; a Young Men's Christian Association building costing \$100,000; a large apartment block, strictly modern and a great number of beautiful residences. In the way of public improvements we have had a great extension of our ornamental lighting system which has spread rapidly all over the city and within another year we will have the best lighted town of its size in the west. General business is good, which has been evidenced by the fact that our merchants have been busily engaged in the installation of ornate store fronts all through the business district. One large store building has been erected. The general prospects for 1915 are better than they have been for years; the Masonic fraternity is building a new temple, work to be started immediately. This is a shrine and Scottish Rite temple. A new opera house is under consideration and will undoubtedly be built during the coming year. About three miles of paving is contemplated, the material being brick, a part of which has been contracted for. Cement sidewalks, curbs and gutters are being laid rapidly. We are also constructing a new gate-way park south

(Continued on page 48.)



**DES MOINES—**(Continued from page 21.)

H. S. Chase has put off apartment building, (6 apartments), 3-story and basement, 50x65; architects, Kraetsch & Kraetsch, 315 Securities building.

W. C. Barton, architect, Des Moines, has made plans for church, 20x30, Moulton, Iowa; Rev. H. O. Bethel, pastor, Moulton; spring work.

Office and factory building, \$25,000, may be built next summer by Manchester Biscuit Co., R. S. Holcomb, manager, 1000 Mulberry st.

W. H. Abbott consulting engineer, Des Moines, is proceeding with plans for the proposed central heating plant.

An addition may be built next summer to Chamberlain hotel, 100 rooms, \$250,000; owner F. G. Warden, hotel.

J. B. Cavanaugh, German Savings Bank, and associates in Cargill hotel, will decide in spring on addition.

Harry Polk will build a flat building, (8 flats), 4-story, 16th and Grand av.; brick, composition roof.

Railroad terminal, \$1,000,000, East Des Moines, Iowa, is contemplated by Rock Island R. R. Co.

The mayor is on a committee to look into proposition for garbage disposal plant.

Contract will be let in the spring for the Citizens' National Bank, \$25,000.

Federal building, bids may be taken in summer, \$250,000. 4-story and basement, 55x52, will be built in spring, 15th and Locust; Architect Norman T. Vorse, for W. M. Vanderwaal, 507 S & L building; reinforced concrete and brick, composition roof.

Plans are being completed for maternity hospital and benefit home, 3-story and basement, \$20,000, by Norman T. Vorse, architect, 911 S & L building, for W. C. T. U. of Iowa, care Mrs. S. C. Slayton, 1082 27th st.; brick and stone, composition roof.

Office building addition is planned by Fleming Bros., Des Moines; plans in progress; will mature in spring; Burnham architect, 80 Jackson st., Chicago; press brick, stone and terra cotta, fireproof construction.

Architect will be selected soon for Randolph hotel addition, about 200 rooms, 10-story, \$200,000 for Judge Jas. P. Hewitt; Randolph Realty Co., incorporated for \$200,000; brick, stone and terra cotta, composition roof.

Residence, 2-story and basement, Architect Norman T. Vorse, 911 S & L building, owner Chas. Ebersall, care Fulton Market; plans completed; will build in spring; brick and stucco, shingle roof.

Paul Lessing, Brown hotel, is having plans made for a \$10,000 residence by Architect N. T. Vorse, who is also making plans for a residence for Chas. Ebersall, Fulton Market, 2-story, \$10,000.

**SUPERIOR, WIS.**

Building activity in Superior is brisk, which augurs a prosperous year during 1915, according to Martin Anderson, secretary to Fire Chief Olaf Johnson. With less than two weeks of 1915, the building permits issued, mostly for residences, total \$50,000. Building permits totaling \$15,500 were issued today for four frame dwellings. They were issued to the Twin House Building Co., as follows. Residence, 2002 Ogden av., \$4,000; residence, 2006 Ogden av., \$4,000; residence, 2008 Ogden av., \$4,000; residence, 677 W. 4th st., \$3,500.

**WATERLOO, IOWA**

Plans by J. A. Ralston, architect, Syndicate building, residence, \$8,000, for Geo. Pett, 305 Hammond av.; plans in progress, frame, mantel; residence \$6,000, Traer, Iowa, for D. Pinkerton, Traer; plans in progress; will build as soon as weather is favorable; brick shingle roof; residence, 2-story, 29x33, \$5,000, Cedar Falls, Iowa, for A. L. Hanson, Cedar Falls; plans in progress; owner will build by day work; frame, shingle roof; remodeling hotel, 3-story and basement, Vinton, Iowa, for J. N. Gibney, are Hotel Ralvea, Vinton; except to build about May; 4-room school addition, Whittier school, Waterloo; plans in progress; will start work soon as possible; brick, fireproof, structural iron.

C. P. Shockley, Black building, has plans in progress for a church, 60x87, \$40,000, Cedar Falls, Iowa, for Zion Evangelical church, Rev. B. R. Winor, pastor, Cedar Falls; brick, stone, terra cotta, composition roof, structural iron; also plans for residence, 2-story and basement, 38x42, \$9,000, for Frank Shareo, 221 E. Park av.; will let contract and start work in spring; brick on hollow tile, shingle roof.

B. M. Cleveland, architect, has furnished plans for a residence, 2-story and basement, \$10,000, at Charles City, Iowa,

for W. D. Johnson, Charles City; bids in; will award contract and start work in spring; brick, hollow tile; also has preliminary plans finished for parochial school; owner's name withheld; postponed until spring.

Work will proceed soon on Carnegie library, \$15,000, Traer, Iowa, Architect J. A. Ralston, 416 Syndicate building, Waterloo, Dr. H. Brown, Traer; will start as soon as matters are completed with Carnegie interests; brick, stone, composition roof.

W. Pedicord, architect, has plans in progress for an apartment building, (15 apartments), 3-story and basement, 48x80, \$15,000; owner's name withheld; brick, composition roof.

C. O. Lamson, Russell-Lamson hotel building, contemplates erection of modern F. P. office building.

**PUBLIC BUILDINGS**

**Alta., Brooks**—Town hall, jail and fire hall burned.

**Iowa, Fulton**—Election soon to vote on bonds for proposed fire station and equipment, cost \$10,000; address city clerk.

**Iowa, Independence**—Announced that bids will be asked for in April for a building to be used for county home in Buchanan county: 90x60, 3-story, \$40,000, brick and fireproof; Harry E. Netcott, architect, city; L. P. Timpson, chairman, Quasqueton, Iowa; steel sash, iron fire escapes, reinforced concrete and gypsum block, fireproofing, cut limestone, pressed brick, steam heat, deep well, gas, private electric plant, tile roof, patent plaster with metal lath and corner beads, wired and ribbed glass, tiled floor, composition floors, oak finish, rolling partitions, dumb waiter.

**Iowa, Pocahontas**—Expected bond issue will be voted on soon for court house for Pocahontas county; preliminary plans now under way; L. O'Donnell, county auditor.

**Minn., Duluth**—Jos. Randall, fire chief, in his annual report recommends the building of fire halls at the Woodland and Hazelwood Park districts.

**Minn., Nashwauk**—There is talk of bonding the village to build a town hall; address village clerk.

**Minn., Northfield**—Campaign for funds for proposed armory successful; site must be chosen next; C. E. Hoppin, city clerk.

**Minn., Welcome**—Plans have been prepared by C. H. Patsche, architect, Fairmont, Minn., for city hall and jail; 1-story, brick and concrete, \$3,500; concrete foundation, common brick, tin roof, common glass, furnace, concrete floor, pine interior finish, jail fixtures, fireproofing, hollow tile, iron beams; Fred Jarchow, village clerk.

**Mont., Bozeman**—Olson & Johnson Co., Missoula, at \$61,475 was low bidder for construction of U. S. post office here, using limestone for all exterior stone work except where granite is required, at \$62,750 using sandstone for all exterior stone work, at \$58,195 using limestone according to revised elevations, and at \$58,490 using sandstone according to revised elevations.

**Mont., Hamilton**—Plans for proposed Carnegie library endorsed by city council and forwarded to Carnegie library foundation for approval; concrete and brick; Judge R. Lee McCulloch, chairman, building committee.

**Mont., Red Lodge**—New agitation started for Carnegie library; will probably be voted on at April election; address city clerk.

**Neb., Crete**—City now owns site for library, park and city hall; effort will be made to secure city hall building; address city clerk.

**Texas, Fort Worth**—Commissioners' court will probably soon call election to vote on issue of bonds for a jail building.

**Wis., Chippewa Falls**—Carnegie library building damaged by fire; loss \$16,000; partly insured; address secretary library board.

**Wis., Fond du Lac**—Special election Feb. 1 on bond issue including \$50,000 for city hall; J. F. Hohensee, city clerk.

**Wis., Hudson**—Bids received by Chris. Nebel, county agent until Feb. 15, for an annex to the sheriff's residence; W. H. Wallace, architect.

**Wis., Marion**—Special election called for Jan. 12, to vote on bonds for \$10,000 for village hall; G. J. Kinkel, village clerk.

**Wis., Neenah**—Council recommended purchase of cabinets for city attorney; Harry Zerlock, city clerk.

**Wis., Portage**—Committee authorized to secure plans for poor house, and call for bids; John Scott, chairman, committee; cost to be \$30,000; E. E. Price is county clerk.

**BIDS WANTED.**

**Iowa, Montezuma**—Bids received by W. C. McKee, county auditor until 10 a. m., Feb. 16, to complete and install equipment for county jail; plans on deposit of \$10; check for 10 per cent.

\***Minn., Red Wing**—Bids received by state board of con-



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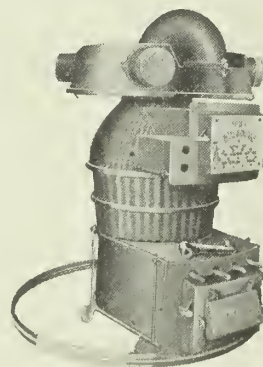
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trol. M. J. Tappians, secretary, state capitol building, St. Paul, Minn., until 2 p. m., Feb. 9, for altering east wing of boys' dormitory building into a hospital at state training school. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Neb., Lincoln**—Bids received by J. G. Cordner, architect, Lincoln, Neb., for public library at College View, until 7 p. m., Jan. 30; 34x50, 1-story and basement, \$7,500; brick, stone cement, steel wood, steam heat, electric wiring and plumbing; check for \$300; plans on deposit of \$10; E. W. Aul, secretary, library commission.

**Neb., Lincoln**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., Feb. 18, for extension and remodeling, including mechanical equipment, interior lighting fixtures and approaches, of the U. S. post office and court house.

**N. D., Bismarck**—Bids received by T. E. Flaherty, county auditor, until 2 p. m., Feb. 2, for steel vault fixtures for office of county judge, also for steel filing cabinet on castors, one locker, shelves for six record books, six document files and six files, etc.; check for 5 per cent.

**Ohio., Alliance**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., March 1, for construction complete (including mechanical equipment, interior lighting fixtures, and approaches) of the U. S. post office at Alliance, Ohio.

**Wis., Medford**—Bids received by A. J. Latton, secretary commission, about Feb. 1, for library building, \$6,000; H. T. Liebert, architect, Wausau, Wis.

**Wis., Menomonie**—Bids received by S. S. Sivertson, chairman, Celfax, Wis., until 10 a. m., Jan. 30, for addition and heating plant in court house; plans at court house and with S. A. Sorenson, Elk Mound, Wis.

**Wis., Oshkosh**—Bids received by R. A. Hollister, chairman, board public works, until 2 p. m., Jan. 26, for construction of bath house on south side of river; check for 10 per cent.

#### CONTRACTS AWARDED.

**Wash., Okanogan**—Contract for court house reported awarded to E. D. Davenport, Omak, Wash., at about \$50,000; Geo. H. Keith, architect, Spokane.

**Wis., Sparta**—Contracts let it is reported for rebuilding city hall as follows: F. E. Webster & Son, the rebuilding of the foundation and footing; N. F. Palen the installing of the heating and plumbing and the Sparta Sash & Door Co. the carpenter work and final completion of the building.

## HOTELS AND HOSPITALS

**Iowa, Audubon**—Mrs. Mae Blackney is having the Park hotel remodeled; further repairs will be made in the spring.

**Iowa, Cedar Rapids**—Large, modern hotel, fireproof, is contemplated by a stock company, care Lew W. Anderson, Masonic Temple building; will probably cost \$500,000.

**Iowa, Davenport**—Site has been selected for building for St. Luke's hospital; fireproof, absolutely modern.

**Iowa, Dubuque**—Announced work will begin as soon as weather will permit on \$20,000 addition to Finley hospital; plans by Richard E. Schmidt, Garden & Martin, 104 South Michigan av., Chicago.

**Iowa, Lenox**—Plans being pushed for a \$10,000 hotel; J. E. Rogers, chairman, publicity committee.

**Iowa, Marshalltown**—Plans in progress for remodeling Y. M. C. A. building into rooming house, \$10,000; Reimer & Herlin, architects, First National Bank building; Bosch Bros., owners.

**Iowa, Muscatine**—Addition to the German Lutheran Old Folks' home will be commenced in early spring; cost \$12,000.

**Iowa, Sibley**—Stock company being organized to build modern hotel; address the mayor.

**Minn., Avoca**—M. H. Rath expects to build a 2-story, modern hotel on site of the present Avoca hotel; work to begin in the spring.

**Minn., Middle River**—Roseau county commissioners have voted to join with Marshall county in building a tuberculosis sanitarium in the vicinity of Middle River; cost will be \$30,000, of which amount the state will pay \$15,000, Marshall county \$10,000, and Roseau county \$5,000; Louis Enstrom and W. B. Gislason will represent Roseau county in a conference on site and plans.

**Minn., Virginia**—Work has been started on an addition to the McIntyre hospital; 30x40.

**Minn., Wabasha**—Site selected for county sanitarium and approved by state board; when title is perfected, board will proceed to advertise for bids. Geo. J. Ginther, county auditor.

**Mo., St. Joseph**—Bids were taken by Architect Rudolph Heier, Lincoln building, until Jan. 20, on general contract

for the Noyes Memorial hospital; cost, \$200,000; contract to include everything but heating, electric wiring, plumbing, and one electric elevator; 6-story and basement, 139x48 feet, fireproof, reinforced concrete frame, fireproof and reinforced slabs, brick cut stone and terra cotta trim, tar and gravel and tile roof, steam heating, plumbing, electric wiring, hollow tile and gypsum block partitions, tile and composition floors, metal doors and windows, metal furniture, wall cases, cabinets, etc.

**Mont., Billings**—P. G. Carlin announces that he will make a large number of improvements to the El Niblo hotel, recently purchased by him.

**Mont., Musselshell**—Two-story brick addition will be made to the Riverview hotel building; modern heating plant, plumbing.

**Mont., Red Lodge**—County commissioners have sold bonds to amount of \$25,000 for erection of new general hospital here; address county clerk.

**Neb., Lincoln**—Bill in the legislature proposes appropriation of \$150,000 for a hospital at the Omaha medical college, a part of the state university.

**Neb., Omaha**—Plans to be started at once on a club house for the Omaha Gun club, to be erected across the Missouri river from Omaha; 2-story and basement; \$10,000; probably brick and wood.

**N. D., Lakota**—Hotel Lakota burned; total loss.

**S. D., Hitchcock**—Construction has begun on new hotel for D. E. Chapin; to be modern and complete.

**Wis., Fort Atkinson**—Date for bids not set building for Fort Atkinson Sanatorium Association, H. H. Curtis, for information; 36x62, 3-story, \$14,000; brick and tile, wood joists, concrete and vitrified tile floors; J. G. Shodron, architect, city.

**Wis., Fox Lake**—Fire damaged the Fox Lake hotel to the amount of \$2,000; fully covered by insurance; Jas. R. Marvin, manager.

**Wis., Union Grove**—Plans completed for home for feeble-minded, to be built by state board of control; M. J. Tappins secretary; 3-story and basement, \$350,000; R. A. Messmer Bros., architects, Majestic building, Milwaukee.

**Wis., Webster**—Summer resort hotel on Yellow Lake, owned by W. H. Davis, burned; insured for \$1,500.

#### BIDS WANTED.

**Minn., Barnesville**—Bids taken about Feb. 20, on hotel owned by J. W. Bernhardt; 70x80, 3-story and basement, \$30,000; plans now in progress; Hoffman & Mosse, architects, Rochester, Minn.

**Wis., La Crosse**—Reported bids will be taken about Feb. 1 on addition of 24 rooms and operating rooms to hospital owned by St. Francis hospital, care Rev. K. Beyer; \$50,000.

#### CONTRACTS AWARDED.

**Mo., Ozark**—General contract to L. R. Williams, city, for county infirmary for Christian county; 45x65, cut stone trim, steam heat, plumbing, electric wiring, private plant, tar and gravel roof, pine interior finish. Boillot & Lauck, architects. Scarritt building Kansas City. S. E. Bronson, member county court.

**Wash., Seattle**—Contract to Johnson Bros., 4315 Thackery place, for 3-story hotel and store building for Fott & Perry, to cost \$25,000.

## ELEVATORS

**Iowa, Turin**—A new farmers' elevator will be erected here in the spring.

**Minn., Bertha**—The Bottemmer Co. will erect a new potato warehouse in the spring, 50x100; full basement, modern.

**Neb., Albion**—The co-operative elevator is being erected at Boone.

**N. D., Makoti**—Reported that new elevator will be erected here in the spring.

**S. D., Madison**—Elevator at Sanarac burned. C. Z. Sharp, owner; loss, \$5,000; insured at \$3,000.

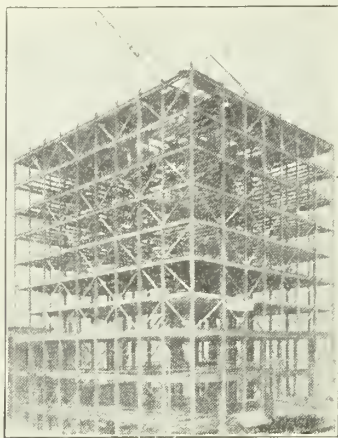
## THEATRES AND HALLS

**Iowa, Davenport**—Rumored that a stock company will be formed to build a new opera house; address secretary, Commercial club.

**Iowa, Davenport**—Announced that bids will be called for between Feb. 1 and 15 on a parish house for Episcopal Trinity church; plans in progress; 64x80, 2-story and basement; E. H. Hoolbrook, architect, Whitaker building.

**Iowa, Davenport**—Richard Mittelbuscher and Chris. G. Beh-





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rens, 121 W. 15th st., contemplate remodeling the Family theater.

**Alta., Edmonton**—Lyceum theater damaged by fire to amount of \$30,000.

**Iowa, Fairfield**—Bids now being taken, no time set for closing, on Masonic temple, offices and stores; brick, stone, steel, cement, wood; 40x130, 2-story; heating, lighting and plumbing; Leon Thomas, chairman, building committee.

**Iowa, Iowa City**—Announced that bleachers will be built on the University athletic field this year; J. M. Fiske, superintendent of grounds.

**Iowa, Iowa City**—Plans in progress for club rooms for students and pastor's residence, 2-story; Baptist church, owner; Rev. R. P. Choffie, pastor.

**Iowa, Keokuk**—H. H. Friedman and Alex Cohen have taken over the Hippodrome theater and will close it for two weeks while extensive repairs are being made; will be enlarged and made into a handsome, up-to-date place; later a \$10,000 pipe organ will be added.

**Iowa, Lamotte**—Plans under way for an auditorium hall for the Columbian order; to be constructed in circular form, probably brick, metal and reinforced concrete; work to start in early spring; address secretary of the order.

**Iowa, Lansing**—Opera house recently burned; loss, \$8,000; insured for \$5,000. Will probably be rebuilt. Address the mayor.

**Iowa, Sioux City**—Plans for the improvement of Colonial theater have been announced by the Dubinsky Bros. Amusement Co.; airdome will also be built; total cost of \$28,000; Buettler & Armour, architects, completed plans for both; improvement includes raising of ceiling a story and a half, erection of a balcony, installation of a ventilating system, enlargement of the stage and installing of new upholstered seats; erection of the balcony will give additional seating capacity of 400. The airdome will be a permanent structure and will cost \$8,000.

**Iowa, Sioux City**—According to plans just formulated by the directors, a new \$25,000 building will supplant the present Shesler deaconess home in this city; expected contract will be let in February; next meeting of directors Feb. 9; fireproof, brick, 38x135; owned by N. W. Conference of the M. E. church.

**Kan., Preston**—Site purchased and plans under way for Odd Fellows' lodge building; 2-story and basement, brick; B. M. Reynolds, architect, Kearney, Neb.; C. B. Potter, secretary.

**Minn., Ribbing**—Committee of Elks' lodge is looking for site for proposed lodge building; Thos. J. Godfrey, chairman.

**Minn., Litchfield**—Reported that H. L. Peterson will build double front block, in part of which will be located motion picture theater.

**Minn., Little Falls**—Edward Ludwig will repair his building, occupied by the Milo theater, recently damaged by fire.

**Mo., Excelsior Springs**—Work to start about Feb. 1, on remodeling a business building into a theater owned by Jos. Gillinsky; 2-story, brick; contract to be awarded by owner.

**Mont., Butte**—St. John's Episcopal church said to be figuring on gymnasium and parish house, to cost \$25,000; Rev. Chas. F. Chapman, rector.

**Mont., Havre**—Local Masonic lodge has purchased site and hope to build a temple at an early date; address secretary of the order.

**Neb., Lincoln**—At a mass meeting of Masonic orders it was decided to remodel the present temple or build a new one.

**Neb., North Platte**—The Yeomen contemplate construction of new building.

**Neb., Palmyra**—\$24,000 subscribed for rebuilding town hall; J. H. Catron, one of the subscribers.

**Neb., Polk**—Reported that a \$12,000 Odd Fellow building is assured for 1915.

**Okla., Lehigh**—Bids taken about March 1, by Architect Ed. J. Peters, Shawnee, Okla., on lodge building for the Odd Fellows; 5x120, 2-story, \$12,000.

**Wis., Green Bay**—The Green Bay Motor club is considering the building of a club house; address secretary of the club.

**Wis., Oconto**—M. G. Campau has had site cleared and will start work in near future on completion of first-class opera house.

**Wis., Oshkosh**—Sketches being prepared by various architects for proposed Masonic temple; C. C. Konrad, chairman, committee appointed to inspect the sketches and report.

**Wis., Polonia**—The Felician Sisters, owners, ready for bids about Feb. 1, on orphanage; 67x100 2-story, \$12,000 to \$15,000; wood joists, steam heat, etc.; Frank Spalenka, architect, Stevens Point, Wis.

#### BIDS WANTED.

**Mo., Jefferson City**—Bids received by B. H. Linhardt, architect, until Feb. 15, for a theater, owner's name withheld; 50x120, \$12,000.

**Wis., Racine**—Bids received by Guilbert & Funston, engineers, city, until Feb. 2, for Y. M. C. A. building; 80x160, 4-story and basement, \$100,000; Cyrus O. Lane, architect, Robinson building, Rock Island, Ill.; L. C. Bradshaw, secretary.

#### CONTRACTS AWARDED.

**Wis., Beaver Dam**—Contract to Geo. Karl for remodeling of the Grand theater into a motion picture house; ceiling will be raised, balcony put in, stage torn out and rebuilt, and ceiling and side walls covered with steel; steel booth for the picture machine; seating capacity of 400; Mrs. F. Schliewert, owner.

### MILLS AND FACTORIES

**Alta., Calgary**—The Western Cordage Co., of Canada., Ltd., plans erection of a warehouse and offices; cost about \$600,000, fully equipped. A. W. Knowles, president; Charles Hay, architect, 202 Odd Fellow building. Capital, \$500,000. No contract awarded yet. Buildings proposed are. Main office, 30x60; mill, 160x400; basement, 40x100; fibre warehouse, 80x160; twine and rope warehouse, 100x160.

**Iowa, Bettendorf**—Zimmerman Steel Co. will erect a machinery and foundry shop; 150x250, cost \$60,000, will build in spring; address in care of John Zimmerman, Kimball hotel.

**Minn., Pipestone**—The Pipestone Artificial Ice Co., incorporated; capital, \$10,000; W. M. Buck, president, will build.

**Minn., Ray**—The sawmill and shingle mill of O'Brien & Callahan burned; loss about \$5,000; company will rebuild at once.

**Minn., St. Paul**—Plans in progress by Architect Henry F. Erickson, 304 American National Bank building, for a cement factory for Wm. Leithauser, Fremont av., 1-story, 40x80; cost \$10,000.

**Wis., Eureka**—Fire destroyed the entire plant of the Eureka Creamery Co.; plans will be made at once for rebuilding.

**Wis., Green Bay**—The Northern Paper Mill Co. plans to build another warehouse building. W. P. Wagner, president; John C. Fogarty, vice president and general manager.

### ELECTRICAL

**Minn., Canby**—The Canby Telephone Co., Yellow Medicine Co., incorporated, capital \$50,000; Thomas Stringer of Taunton, Minn., A. J. Swanson, Minneota, Minn., Chris. Schanning and J. P. Weber of Porter, Minn., and others, incorporators.

**Minn., Cannon Falls**—The St. Paul Southern Electric Co. proposes to construct an electric railway to connect Cannon Falls with Zumbrota, Pine Island and White Rock, about 30 miles; W. L. Sonntag, St. Paul, Minn., general manager.

**Minn., Duluth**—City orders appropriation of \$85,000 for erecting, installing, an electric light plant, consisting of a transformer station, equipped with static transformers, regulators, etc.; W. I. Prince, mayor.

**Mont., Glasgow**—The Moore Telephone & Telegraph Co. will extend its system from Glasgow to Glentana, in the spring. Exchanges will be established at Glentana, and Opheim; R. J. Moore, vice president.

**N. D., Sentinel Butte**—Proposition being discussed for installation of an electric light system; address Sentinel Butte Commercial club.

**Wis., Chilton**—Petition signed by 1,000 persons presented to the Sheboygan Electric Railway Co., asking for extension of its electric railway from Elkhart Lake to city.

**Wis., Elkhart Lake**—The Sheboygan line will be extended from here to Kiel and Chilton.

#### BIDS WANTED.

**N. D., Grand Forks**—Bids will be received until 5 p. m., March 1, for laying underground wires and installing lamp posts, and extension of ornamental street lighting system, work to be completed on or before Aug. 1, 1915; plans at office of city auditor; check 6 per cent; W. H. Alexander, city auditor.

**Wis., Fond du Lac**—Bids will be received until 10 a. m., Jan. 23, for installing new electric light fixtures, in the circuit court room and also supervisors' room in Fond du Lac county court house; J. W. Rosenbaum, chairman, committee.

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## SCHOOLS

**Iowa, Scranton**—Citizens and Boosters' club are agitating erection of a school building for Independent district.

**Iowa, Sioux City**—A new conservatory of music will be erected at Morningside college in the spring, to replace one recently burned; to cost about \$45,000.

**Iowa, Wilton Junction**—The school building will be remodelled and an addition erected; prospective plans have been drawn by Davenport architects; cost about \$27,000.

**Mich., Calumet**—Plans for a modern school have been prepared to replace one burned last fall at Centennial Heights, will be considered at meeting of the board of education; brick.

**Mich., Sault Ste. Marie**—John D. Chubb, architect of Chicago, Ill., has been selected to prepare plans for new \$13,000 school building at Lock City.

**Minn., Hibbing**—An addition will be erected to one-room school at Kelly Lake.

**Minn., Morgan**—Plans prepared by Albert Schippel, architect, Mankato, for addition and remodeling of school building, brick; bids taken until Feb. 2, by clerk; additional windows to class rooms, painting and repair to present 16-room building, new domestic science room, shingle roof; steel beams, common pressed brick, maple floors; cost about \$7,000; J. C. Jackson, clerk.

**Minn., Northfield**—Patton, Holmes & Flynn, architects, 8 S. Dearborn st., Chicago, Ill., are architects, for proposed building at Carleton college.

**Minn., Pelican Rapids**—Special election will be held Feb. 8, to vote on \$30,000 for erection of new school, also \$5,000 for addition to present school.

**N. D., Cayuga**—A new high school will be erected in Sargent county in near future.

**N. D., Medina**—Architect Horton of Jamestown, N. D., has been commissioned to prepare plans for a \$20,000 high school, 7-rooms, modern, basement, Hebron pressed brick, stone trim.

**Ore., Halfway**—A 2-story school will be erected here; cost \$5,000; address clerk of school board.

**Sask., Elstow**—The Athens school district No. 1533, will erect a 2-room school, brick veneer, \$5,000, to be appropriated for purpose; H. J. Binnie, Elstow, secretary-treasurer.

**S. D., Sioux Falls**—Plans prepared by Patton, Holmes & Flynn, architects, 8 S. Dearborn st., Chicago, Ill., for three schools; cost \$175,000; board taking bids on general contract; W. B. Fuller, secretary.

**Wis., Green Bay**—Four architects, Carr & Walsh, Anderson & Williams, W. E. Reynolds and P. H. Benton, have submitted plans on the proposed addition to the east high school.

**Wis., Prairie du Chien**—A modern fireproof dormitory building will be erected at Campion college this year, 180x40, 3-story; swimming pool, billiard room and auditorium; cost \$125,000.

**Wis., Shawano**—Following bids were received on school in district No. 2: John Peters, Gresham, Wis.; A. H. J. Jaatsch, Shawano; C. Krause, Shawano; Her. Wruock, Lyndhurst; A. S. Schmidt, Lyndhurst; Geo. Kucksdorf, Leopolis; Peters & Knoll, Clintonville; A. C. Spencer, Bowler; Wm. Hoernke, Lyndhurst; contract not awarded yet; C. C. Fritz, architect, Shawano.

**Wis., West Allis**—City will issue \$30,000 worth of bonds for new school.

## BIDS WANTED.

**Iowa, Lawton**—Bids will be received until Feb. 11, 1:30 p. m. for a public school building in district of Lawton, Woodbury county; bids on three separate contracts: (a) general construction of building; (b) heating and ventilating; (c) plumbing; plans by Jas. S. Cox, architect, Estherville, Iowa, on file at office of Alfred Molstad and architect; check 2 per cent; Alfred Molstad, secretary, Lawton.

**Minn., Middle River**—Bids received until 1 p. m., Feb. 19, for school in district 126, Marshall county; separate bids will be received as follows: general building, heating system, ventilating, electric wiring, plumbing; also bids on an independent gas producing plant, light and fuel for domestic science, cooking department; plans at office of Architect Bert D. Keck, Crookston, State Bank, office of L. H. Olson, clerk; check \$400.

**S. D., Letcher**—Time extended for receiving bids from Feb. 2, to Feb. 9, on the new school; official advertisement in the Improvement Bulletin this week.

## CONTRACTS AWARDED.

**Mont., Redstone**—Contract awarded to E. E. Phelps of city for new school, 2-story and basement, 52x40, cost \$15,000; plans by architect; J. W. Ross & Sons, of Grand Forks, N. D.; C. B. Bull, clerk of district.

**Wis., Oshkosh**—General contract awarded to C. R. Meyer & Sons Co., at \$114,837, for school building proper, and electrical work to W. F. Meter Electric Construction Co., at \$1,130.

**Wis., Superior**—Contract for the ventilating system awarded to Carlson Bros., of Superior, at \$2,800.

## CHURCHES

**Ark., Glenwood**—Plans are under way for a Catholic church, contract to be awarded soon; work to begin about March 1.

**Iowa, Boone**—The reorganized church of the Latterday Saints will erect a new edifice in the spring, funds being raised, modern, stucco, basement, 34x46, excavation to begin soon as frost in out.

**Iowa, Cedar Rapids**—Plans have been completed for new church for St. Patrick's congregation; Father Weinecke, pastor; work to begin in the spring.

**Iowa, Clarion**—Fire destroyed the Catholic church here, will be rebuilt this year.

**Iowa, Fort Dodge**—A new church will probably be erected by the Swedish Lutheran Congregation; Rev. Berglund, pastor.

**Iowa, Humboldt**—Hession estate, Frank Owens, representative, Humboldt, Catholic Memorial church lessee; plans to build a new church and school; cost \$64,000; architect not selected; Father M. J. Costeneo, pastor, Livermore; brick, cut stone, 2-story and basement; will mature in summer, 1915.

**Iowa, Marshalltown**—First United Evangelical church will erect a new building.

**Iowa, Sidney**—The Lodge Pole Catholics will erect a new edifice.

**Iowa, Sioux City**—A new \$25,000 building will be erected on site of present Shesler Deaconess' home, contract to be let in February; address W. P. Southworth.

**Minn., Brainerd**—General contract awarded to Geo. Hollander, 4334 24th av. S., Minneapolis, Minn., for church; cost \$1,365; spring work.

**Minn., Ceylon**—Plans have been prepared by C. H. Patsche, architect, of Fairmont, Minn., for a frame church for the Lutheran congregation, 30x70, cost \$2,500; concrete foundation, common brick, shingle roof, wood cornice, art glass, hard plaster, furnace heat, yellow pine flooring and finish, seats; address architect.

**Minn., Eveleth**—A site has been secured by the Italian congregation for erection of a new edifice; cost about \$10,000; an addition to building in spring.

**Neb., Omaha**—The McCabe Methodists, First Presbyterian, St. Barnabas, Episcopal, Second Christian Scientists and Unitarian will each erect a new church in the spring.

**Wis., Milwaukee**—Fire destroyed the Sacred Heart hall of St. Francis parish; loss \$6,000.

**Wis., Neenah**—The Luther League of St. Paul's English Lutheran church is making plans for erection of an edifice this year.

**Wis., Wausau**—Improvements to cost \$5,000 will be made to St. Mary's Catholic church; plans made by local architect; bids will be advertised for soon, seating capacity increased by 200; a semi-direct lighting system to be installed, interior finish of Gothic style; four inverted bowls, 24-inches in diameter will be placed on ceiling, one 18-inch diameter bowl will be placed over choir chambers, 11 16-inch bowls will be placed over gallery and 42 ornamental lights placed on ornamentation along ends of gallery; address pastor.

## BIDS WANTED.

**Minn., Detroit**—Bids in Feb. 25, 5 p. m. for a Catholic church, brick; plans at Builders' Exchange, St. Paul and Minneapolis; officially advertised in the Improvement Bulletin this week.

## RESIDENCES

**Alta., Calgary**—Plans have been drawn for a residence for G. A. Backman; cost \$3,500; work to begin in the spring; Holman & Gotch, architects, Dominion Bank building; address owner, care of architects.

**Minn., Duluth**—Fire destroyed the home of Mrs. J. H. Pratt; loss about \$1,100.

**Minn., Heron Lake**—Fire destroyed the home of Ed. Bauman; loss \$2,000.

**Minn., Hibbing**—Home of Geo. Scott burned; loss \$1,500 insured.

**Minn., Minneapolis**—Fire destroyed the home of Robert Arthur, 4850 Washburn av. S.; loss \$3,600.



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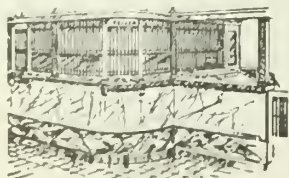
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**Minn., Minnesota**—Fire destroyed the home of Thor Knutson, loss about \$2,000; partly insured.

**Neb., Fremont**—Bids received until 2 p. m., Jan. 27, for a frame residence for W. O. Hasemann; plans at office of A. G. Dyer Co., architects.

## BUSINESS BUILDINGS

**Iowa, Greeley**—Fire destroyed the following business places: B. F. Farwell's restaurant, pool hall and opera house; Q. M. Taylor's furniture store; empty buildings owned by Mrs. Emily Marchan; Brockmeyer Implement Co.'s building; post office building; L. A. Schneide, hardware store; Dr. Thomas' building; F. M. Burbridge's home; loss about \$500,000.

**Iowa, Sioux City**—Fire destroyed the Trimble block, loss about \$20,000; W. S. Gilman, owner; principal losers, Nash & Hough Furniture Co., \$45,000; Overland Sioux City Co., autos, \$40,000; Schultz Auto Supply Co., \$50,000.

**Minn., Faribault**—Labor unions are organizing a company and will probably erect an ice house, cost \$10,000; work to begin at once.

**Minn., Little Falls**—R. C. Buckley, architect, St. Cloud, has prepared plans for new union building to be erected by the German American National Bank and John Vertin; 90x40x50, brick, 2-story.

**Neb., Grand Rapids**—Architect Kirschke is preparing plans for a store building at St. Paul, Neb.; another store building at Ansley and a bank at Anselmo; also for remodeling and extension of building of Mr. Martin.

**S. D., Sioux Falls**—Dennis Bros. will erect a modern business block, 1-story, 40x60; work to begin soon.

**S. D., Ravinia**—Fire destroyed the following business buildings: Kellison's meat market; Andres State Bank, Paul Jaehan's hardware store; Chas. Frederick's meat market and stores of Frank Shoep, Suiter Bros. and L. Liodel; loss about \$25,000.

**S. D., Tyndall**—Olivia Bros. store at Blaha was burned.

**Wis., Appleton**—Stockholders of the Citizens' National Bank will erect a new 2-story building.

**Wis., Merrill**—Fire destroyed the grocery store of Carl Brothers.

**Wis., Sheboygan**—Stockholders of German Bank considering plans for building, bank and office; W. J. Rietow, Peter Reiss, interested.

**Wis., Superior**—W. T. Hill will erect a combined warehouse and office building.

### CONTRACTS AWARDED.

**Iowa, Iowa Falls**—Contract awarded to W. J. Zitterell of Webster City for erection of State National Bank.

**Neb., Palmyra**—Contract for new store building to be erected by E. Granger for Barnes & Co., has been let to Allen Walker of Bethany; work to begin soon; brick, Kawneer store front, 30x60; fireproof store room in rear.

## FIRE APPARATUS

**Iowa, Iowa City**—G. Keontz, mayor, and J. J. Clark, chief of fire department, desire information regarding triple combination pump, hose and chemical auto; will soon come up before council.

**\*Iowa, Le Mars**—Contract awarded to the W. S. Nott Co., Minneapolis, Minn., for 500 feet of new hose at 80c per foot, with which six lanterns, three gaskets and some expansion joints were thrown in.

**\*Iowa, Waterloo**—Contract awarded to the Dart Motor Co., city, for motor hose truck, at \$2,425.

**\*Minn., Crookston**—Fire marshal has made request to city officers for purchase of 6-wash snaps for use on the hose sleigh, same referred to fire committee.

**Minn., Duluth**—Fire chief recommends purchase of fire boat, triple combination motor truck, for No. 2 station and city service motor ladder, new automobile for chief and 2,000 feet hose.

**Minn., Hutchinson**—Funds are being raised for purchase of a fire truck.

**Minn., Sleepy Eye**—A. M. MacMaster has requested council to consider the purchase of a fire truck for fire department.

**Mont., Townsend**—John McCormack, Jr., was elected chief of fire department.

**\*Wis., Arcadia**—J. P. Runkel was elected president of fire department; J. H. Muir, secretary; Henry Schroeder, treasurer.

**Wis., Chilton**—The Germania Hook and Ladder Co., elected

the following officers: Foreman, Geo. Bruckner; first assistant, O. W. McCarty; secretary, Henry J. Schommer; treasurer, A. C. Kingston.

**Wis., Milwaukee**—Henry C. Kruse has been elected as assistant fire chief, James G. Butler was made master mechanic of the department to succeed T. P. Manion.

**Wis., Oshkosh**—Bids will be received until 2 p. m. Jan. 28, for a combination motor driven ambulance and patrol vehicle; also for motor service truck. Address city council.

**Wis., Oshkosh**—Bids will be received by board of public works, R. A. Hollister, chairman, until 2 p. m., Jan. 28, for furnishing following for use in fire department; one motor service truck for city, of not less than 53 or more than 80 h. p. 6 cylinder power plant; equipped with following ladders: one 60-foot trussed extension ladder, one 45-foot, one 35-foot, one 16-foot, inside extension ladder and 28-foot wall ladders, one on each side, one 32-foot wall ladder, one 24-foot ladder to be submitted with bids.

## DRAINAGE AND IRRIGATION

**Colo., LaMar**—Meeting Jan. 30 by May Valley drainage district, Powers county, to vote on issuing \$25,000 bonds to build drainage system. H. C. Byrnes, secretary.

**Iowa, Laurens**—Council voted to drain Rush Lake.

**Iowa, Spencer**—County board is considering establishing a drainage district in Summit and Meadow to be called district No. 28.

**Iowa, Webster City**—J. T. Drug appointed engineer of construction on drain 170; F. S. Boudinout was appointed engineer to make preliminary survey for drainage district petitioned for by Ollie Thronhill.

**Minn., Albert Lea**—Hearing 2 p. m., Jan. 22, on proposed county ditch 29. C. E. Brainerd, auditor, Freeborn county.

**Minn., Crookston**—Contract awarded to M. R. Hussey, Crookston, for construction of judicial ditch 52, with concrete culvert work; Security Bridge Co., Minneapolis, was low on bridges; steel culverts awarded to Illinois Steel Bridge Co.

**Minn., Mankato**—County Surveyor Roy Allison is completing report on proposed county ditch 36, and will file it soon.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, city purchasing agent, until 3 p. m., Jan. 25, for furnishing the city vitrified sewer pipe for 1915. Check for \$1,500.

**Minn., Olivia**—Hearing Feb. 2 on county ditch petition of H. N. Ness and others; J. L. Johnson and Renville Co.

**Minn., Ortonville**—Hearing Feb. 1 on proposed county ditch 10; A. V. Randall, auditor, Big Stone county.

**Minn., Slayton**—Final hearing 10 a. m., Jan. 29, on proposed judicial ditch 7. R. H. Hyslop, clerk, district court; Ole Swanjord, attorney for petitioners.

**Minn., Windom**—There will be seventy-five branches besides the main ditch in the new judicial district No. 9, now being advertised; hearing to be held on report of viewers Jan. 29, in the court house. P. G. Neufeld, clerk district court, Cottonwood county; O. J. Finstad, attorney for petitioners, Windom.

**Minn., Worthington**—Hearing Jan. 25 on petition for proposed county ditch 13, main and thirty branches. Gus Swanberg, auditor, Nobles county.

**Neb., Scottsbluff**—Belmont Canal farmers voted to form an irrigation district and buy the canal.

### BIDS WANTED.

**Minn., Glencoe**—Bids in 2 p. m., Jan. 29, on digging and constructing county ditch 26, McLeod county; about \$2,239; certified check, 10 per cent; plans with F. D. Stocking, auditor, Glencoe.

**Minn., International Falls**—Several important lettings are set for Feb. 4: Judicial ditch 14, 11 a. m., Feb. 4, estimated cost, \$135,292, certified check for 10 per cent; judicial ditch 17, 11 a. m., Feb. 4, \$86,890, check for 10 per cent, 37.5 miles; judicial ditch 18, 11 a. m., Feb. 4, 101 miles, 1,527,062 yards, cost \$280,484, check for 10 per cent; judicial ditch 20, 11 a. m., Feb. 4, 17 miles, \$46,869, check for 10 per cent; L. H. Slocum, auditor, Koochiching county; E. W. Kibbey, engineer. Total mileage of ditches, 209 miles; total cost about \$660,000.

### CONTRACTS AWARDED.

**Minn., Roseau**—Contract awarded for construction of county ditch 20, to Kohler Contracting Co., Frazee, Minn., at 17c per yard; S. G. Bertilrud, county auditor.

**Neb., Nebraska City**—Contract awarded to Fred M. Crane, Omaha, for digging and constructing drainage district No. 1. Otoe & Johnson Co., at about \$116,000, for excavation. Work to be completed May 1, 1916.



## SPECIAL NORTHWEST OUTLOOK REPORTS.

(Continued from page 38.)

of the Great Northern passenger station which will be linked with other ground in the vicinity, making a beautiful park of thirty acres in the center of the city. Steps are also being taken for the improvement of the great Mt. Helena park. The second unit of the great irrigation system being installed in the valley just north of town by the Montana Reservoir & Irrigation Co., is about completed and water will be turned on about four thousand acres additional, making a total of twelve thousand acres under irrigation in this valley. We are also constructing, or rather rebuilding, a flour mill with a capacity of two hundred barrels per day which will be in operation about the first of April. L. M. Rheem, manager, Helena Commercial Club.

**Mont., Lewistown**—Past season has been a good one for building construction, for public improvements and for general business; the general prospects for 1915 are fair; building outlook, fine; general business outlook, excellent; paving, 1914, \$130,000; curbs and gutters, 1914, \$50,000; sewers, 1914, \$18,000; residences, 1914, one hundred, \$350,000; public buildings, 1914, \$150,000, and \$100,000 office and store buildings; water works, 1914, \$100,000; Wasmansdorff & Eastman, architects and engineers.

**Mont., Roundup**—Past season good for building construction and public improvements; general business, excellent; general prospects for 1915, good; building outlook, fair; sidewalks, 1914, \$18,000; proposed for 1915, very little; sewers, 1914, none; proposed for 1915, \$40,000; residences, 1914, thirty, \$60,000; water works, 1914, \$5,000; proposed for 1915, 6,000 feet of lateral; Claude A. Renshaw, city engineer.

**Neb., Omaha**—Prospects for building in Omaha are excellent. A careful investigation reveals the following, which are to come up the early part of the year: Travers Bros., large apartment at 26th and St. Mary's av.; Mrs. Cunningham, double flats at 11th and Arbor, in addition to one just started; Mr. Reeves, a 9-room residence at 2443 Fontanell blvd.; J. F. Belford, store and apartment at 27th and Webster sts.; University of Omaha, 3612 N. 24th st., \$50,000 on prospective new site; World-Herald, 8-story, \$250,000 building at 15th and Farnam sts.; Rose Realty Co., store and office building, 16th and Farnam sts., \$250,000; complete and repair Omaha auditorium, \$50,000; Brownell Hall (seminary), 10th and Worthington av., \$150,000 on new location in Fairacres (suburb of Omaha); Grain Exchange, 19th and Harney sts., \$250,000; Dunkard church and apartments, \$150,000, Rev. M. R. Weaver, 2615 N. 22d st.; Danish clubhouse, \$50,000, 15th and Jones st., J. Michaelson, 202 Paxton block, secretary; St. Peter's R. C. church and school, \$135,000; McCabe M. E. church, 41st and Farnam sts., \$50,000, Rev. W. H. Underwood, 4255 Douglas st., pastor; Bohemian auditorium, 13th and Pine st., \$35,000; Catholic cathedral, 40th and Webster, new contract to complete, about \$100,000, is now up to roof and about \$275,000 expended; duplicate of present Clarkson memorial hospital, Dewey av. and 21st st., \$100,000 to \$150,000; G. F. Gilmore, fine residence in Dundee (suburb of Omaha). The following buildings have recently been started in Omaha: McClelland hospital addition, \$20,000, 34th and Farnam sts.; Good Shepherd chapel, \$150,000, 40th and Jones; Merchants' hotel, 1503 Farnam st.; power house for state institute for deaf and dumb; Dundee school (suburb of Omaha), \$50,000; two residences, Hyatt & Fairfield, 230 Omaha National Bank building, at corner 11th and Arbor sts; in neighboring territory: Masonic club and merchants' building, \$12,000, Hyannis, Neb.; Lutheran hospital, York, Neb., \$30,000; school, Melcher, Iowa, \$13,000; church, St. Edwards, Neb.; Roman Catholic church, North Bend, Neb., \$15,000; high and grade school, Chapman,

Neb.; double store, Lewis M. Keene, Fremont, Neb.; school, 112x96, Sidney, Neb.; store, West Point, Neb., Jas. J. Jerman; jail at Glenwood, Iowa; double store at Glenwood, Iowa; high school at Glenwood, Iowa; church, also high school at Red Oak, Iowa; jail at Wahoo, Neb.; courthouse at Tekamah, Neb.; public library, York, Neb.

**Neb., Wayne**—State Normal administration building being built, cost \$85,000; sewers in 1914, 1 1-8 miles and 1 1/2 miles water works.

**N. D., Bismarck**—City Engineer Atkinson reports that during this year a large amount of municipal improvement work has been done. The actual figures show the following: 8,200 lineal feet of concrete sidewalk, 6,700 lineal feet of curbing and parking, 4,620 lineal feet of sanitary sewer, 3,500 lineal feet of storm sewer. In addition there has been over three miles of streets graded. Practically all of this work has been done by local contractors, who have employed local labor, so that the money spent has been kept in the city. The city now has over eighteen miles of graded streets.

**N. D., Bismarck**—Bridges, Burleigh county, 1914, about \$25,000; for 1915, not known; T. E. Flaherty, county auditor.

**N. D., Casselton**—Past season not good for building or public improvements; general business, good; prospects for 1915, good; building outlook, very little in view; sidewalks, 1914, \$400; for 1915, none yet; sewers proposed for 1915, complete system; schools, 1914, new \$50,000 school; residences, 1914, six, \$20,000; water works proposed for 1915, complete system; L. E. Correll, city auditor.

**N. D., Center**—Past season fair for building construction and public improvements; for general business, good; general prospects for 1915, good; sidewalks, \$100; proposed for 1915, wood, \$400; schools, 1914, \$5,000; proposed for 1915, none; residences, \$6,000; public buildings, 1914, \$2,200; proposed for 1915, jail, \$2,000; bridges proposed for 1915, one, steel, \$4,000, bids in spring; Frank J. V. Kirbert, county auditor.

**N. D., Crosby**—Past season good for building, public improvements and for general business; general prospects for 1915, fine; building outlook, good; sidewalks, 1914, \$3,000, six blocks cement; schools, 1914, \$25,000; residences, 1914, twenty-five, \$40,000 to \$60,000; public buildings, 1914, \$40,000; I don't know of any one contemplating any building now; Crosby has done well in this respect the past two years and with business outlook there is reason to suppose that as much progress will be made in 1915; W. E. Vadnais, county auditor.

**N. D., Dickinson**—With good crop conditions which are indicated for the spring, with prices holding up well, and good market facilities, there is every indication to believe that next year will see even greater advancement than the past. Dickinson will have its federal building, normal school, oiled streets, more lights, more homes, and other business blocks now being contemplated at the present time, while a north and south railroad has got to come some time, and possibly not so far in the distance. Improvements last year totaled \$115,000, including \$75,000 hotel.

**N. D., Fargo**—Past season good for building, public improvements and general business; general prospects for 1915, good; building outlook, good; paving, proposed for 1915, 50,000 yards; sidewalks, 1914, \$8,000; will not know about 1915 till later; bids after March 15; sewers, 1914, \$30,000; schools, proposed for 1915, \$125,000, contract let; residences, 1914, one hundred twenty-five; \$300,000; water works, 1914, \$30,000; F. L. Anders, city engineer.

**N. D., Grand Forks**—Past season good for building; public improvements, good; general business, good; prospects for 1915, fair; building outlook, fair; general business outlook, good; bridges for 1914, \$30,000; bids for 1915 in April; Hans. Anderson, county auditor.

**N. D., Mohall**—Past season good one for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; buildings, 1914, \$15,000; school, \$4,000, C. R. Tummons, president; store, \$4,000, J. S. Ferguson; some farm buildings proposed for 1915, bids about February or March, 1915; bridges, 1914, \$8,000; proposed for 1915, \$10,000, May or June, 1915; Ed. White, county surveyor and construction engineer.

**N. D., Williston**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, fair; sidewalks, 1914, \$2,000; curbs and gutters, 1914, \$1,000; public buildings 1914, \$175,000; residences, \$30,000; hotel, \$100,000; hospital, \$100,000; armory, \$25,000; Catholic church, \$30,000, in prospect for 1915; G. G. Harvey, city auditor.

**S. D., Aberdeen**—1914 was a prosperous year in Aberdeen; prospects bright for 1915.

**S. D., Beresford**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; sewers, 1914, \$2,



New Consolidated School, New Providence, Iowa.

(Continued on pages 55-57.)



## WATER WORKS

**Iowa, Buffalo Center**—Special election will be held Feb. 16, to vote on \$7,000 water works bonds; W. H. Collins, mayor.

**\*Iowa, Carroll**—Contract awarded to an Omaha firm for 20,000 feet of new city water main at \$13,427.

**Iowa, Grinnell**—At special election it was decided to replace old wooden water tank with a steel one; cost \$2,000.

**Iowa, Dixon**—Special election will be held Feb. 8, to vote on issuance of \$6,200 bonds, for water works system; cost \$10,000; Wm. Hansen, town clerk.

**\*Iowa, Low Moor**—At a special election here, citizens voted \$8,000 bonds for a municipal water plant.

**Minn., Keewatin**—Contract awarded to Stacey Hill of Duluth for installation of air return system for pumping water from village well at rate of 350 gallons per minute at \$4,485.

**Minn., New Ulm**—A new pump head to cost \$3,500 will be installed by city together with 60 h. p. motors, contracts to be let in February; A. J. Mueller, superintendent.

**Minn., St. Paul**—The National Cast Iron Pipe Co. of Birmingham, Ala., have contract to furnish cast iron pipe for the St. Paul water works, 1,146 tons, at cost of \$25,000; other bidders were: Kennedy Valve Manufacturing Co., South Park Foundry Co., Robinson-Carey-Sands Co. and Crane & Ordway Co.

**Minn., St. Paul**—Contract let to Henry R. Worthington, of New York City for furnishing city the following: 2,500 5-8-inch meters, for \$5.35; 300 3-4-inch for \$7.70, and 85 2-inch at \$35.

**Mont., Cut Bank**—Ordinance passed authorizing water works system, to cost \$8,000, and extending water mains; S. L. Potter, mayor.

**Neb., Holbrook**—City will vote at spring election on bonds for electric light and water works system; cost about \$20,000.

**Ore., Milwaukie**—Contract awarded to Giebisch & Joplin of Portland, Ore., at \$16,466, for laying water mains to connect with Portland system.

**\*Ore., Portland**—The Oswego Lake Water, Light & Power Co., incorporated, will furnish water to Oswego; A. S. Pattulo, one of incorporators.

### BIDS WANTED.

**Iowa, Sioux City**—City council will advertise for bids on a deep well pump at site of new central water supply station near Springdale; cost about \$5,000; Councilman Lewis also ordered call for bids on 100 valves for 1,700 tons of cast iron pipe to be used in water works extension this next summer.

**Mich., Gladstone**—Bids received until 5 p. m., Jan. 23, water intake pipe, laying 1,500 feet 24-inch, also to construct a crib 5 feet in diameter, 8 feet high; check 5 per cent; address city clerk.

**Neb., Talmage**—Bids will be received until 7 p. m., Feb. 3, for one 6x8 triple pump, and one 10 h. p. 220 volt, direct current, motor gear, connected to pump; Aug. Dickerman, village clerk.

### CONTRACTS AWARDED.

**Iowa, Carroll**—Contract awarded to the Alamo Engine & Supply Co., Omaha, Neb., for 20,000 feet water mains.

## SEWER WORK

**Iowa, Burlington**—Engineers have approved plans for the Gnahn st. sewer and branches and city will award contract soon. Address city clerk.

**Iowa, Jefferson**—Hearing Feb. 16 on sewer on Madison st. Address city clerk.

**Iowa, Kenwood**—City council reported to be considering construction of sewage disposal plant to cost about \$25,000; address city clerk.

**Iowa, Ogden**—City is said to be contemplating a sewer system in the near future; address city clerk.

**Iowa, Tripoli**—Plans for sewer system received from M. Tschirgi & Son, civil engineers, Cedar Rapids, Iowa; expect to advertise for bids in the spring; H. W. Bockhans, city clerk.

**Minn., Duluth**—Sewers have been ordered by the city council as follows: sanitary sewers in 11th st., between 13th and 14th avs. E. at a cost of \$2,500; 9th st., between 4th and 5th avs. E., at a cost of \$700; 68th alley W. between Main and Polk sts., at a cost of \$1,000; storm sewers in 6th st., between 15th and 17th avs. E.; 58th av. E., between London road and Superior st., and 19th av. E., between 5th and 6th sts.

**Minn., Hibbing**—Reported that bids would be asked for this week on material for the Alice sewer; D. D. Haley, city recorder.

**Minn., Lake City**—Reported that 15 blocks of 8-inch vitrified

pipe sewer are contemplated for the spring; E. R. Patrick, city clerk.

**Minn., Mankato**—Petition before council for sanitary sewer on Lafayette st. and also on 2d.

**Minn., St. Paul**—Hearing Feb. 26, on proposed Payne av.—California st. sewer system, to cost \$44,583; proposed sewer on Fry st., from Lafond to Edmund st., and on Lafond from Aldine st. to Snelling av. will be up for hearing that day also.

**Minn., Virginia**—Council expected to take action this past

**Ill., Rockford**—Bids received by Edwin Main, city engineer, until 11 a. m., Jan. 27, on sewer work as follows, all of vitrified pipe: 17,281 feet 9-inch; 11,942 feet 10-inch; 8,324 feet 12-inch; 4,182 feet 15-inch; 1,063 feet 18-inch; 1,781 feet 20-inch; 787 feet 24-inch; 3,641 feet 27-inch; 1,326 feet 30-inch; 8,137 feet 33-inch; 90 manholes (49 ordinary, 41 combination); 10 flush tanks; 33 lampholes; check 10 per cent.

**Iowa, Council Bluffs**—Bids received by Chas. J. Duff, city clerk, until 8 p. m., Jan. 25, for sewer work as follows: av. C, from 8th to 13th st., 1,200 feet of 15-inch sewer; 400 feet of 12-inch sewer; 400 feet of 10-inch sewer; 1,224 feet of 6-inch sewer; 68 Y's; av. F, from 8th to 13th st., 1,200 feet of 15-inch sewer; 400 feet of 12-inch sewer; 400 feet of 10-inch sewer; 1,224 feet of 6-inch sewer; 68 Y's; av. E, from 8th to 13th st., 1,200 feet of 15-inch sewer; 400 feet of 12-inch sewer; 400 feet of 10-inch sewer; 1,224 feet of 6-inch sewer; 68 Y's; 12 manholes; work to be done after Feb. 1 and before July 1; check for 5 per cent.

**Kan., Olathe**—Bids received by Ray Murray, city engineer, until 5 p. m., Jan. 25, for complete equipment of automatic pumping station for sewer; separate bids for equipment and building; plans of city engineer. Check for \$150. week on storm sewers in alleys between Chestnut and Walnut and Maple and Chestnut sts; cost to be about \$20,000; M. J. Boylan, mayor.

**Minn., Virginia**—Work has been begun by Lawrence-McCann Co. on excavation for the buildings at the purification plant at the city's new sewer outlet; plant will consist of two Imhoff tanks, a filter bed 210x120 and necessary buildings, and will cost about \$78,000.

**Minn., Wabasha**—Twelve blocks of 8 to 20-inch vitrified pipe sewer are contemplated for the spring; J. M. Schouweiler, city clerk.

**Okla., Afton**—Election held Jan. 21 on sanitary and storm sewer system to cost \$37,000; plans by Benham Engineering Co., Oklahoma City.

**Texas, Dallas**—Probable that bids will be called for about Feb. 1 for sewage disposal plant and interceptor sewers in Oak Cliff; final plans and specifications practically completed. Jas. H. Fuertes, engineer, New York city.

**Wis., Durand**—Sanitary sewers are contemplated in the spring; F. J. Pfeiffer, mayor.

**Wis., Superior**—All bids rejected for sewer in alley between Fisher and Catlin avs. R. E. McKeague, city clerk.

## BRIDGES

**Iowa, Fort Dodge**—The Des Moines, Ft. Dodge & Southern railways announce the construction of a concrete and steel bridge across the Des Moines river; cost about \$40,000.

**Iowa, Muscatine**—City and the Rock Island railroad may build a bridge over Mad Creek; address city clerk.

**Iowa, Sioux City**—Members of city council will bring up at an early meeting question of plans for replacement of present bridge across the Sioux river with a modern structure; address Councilman E. O. Wesley.

**Minn., St. Paul**—Plans have been completed and approved by city for new bridge over Mississippi river by the Omaha and Milwaukee roads to replace old Omaha bridge; cost about \$300,000.

**Wis., Superior**—Two bids were received for raising and lowering of Lamborn bridge to enable repairing to be done underneath, Whitney Bros., at \$875, and Frank Beckwith, at \$350; contract awarded soon.

**Wyo., Sheridan**—Appropriation of \$4,000 made by council for bridge. Address city council.

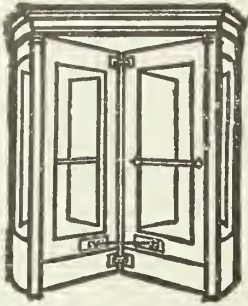
### BIDS WANTED.

**Alta., Calgary**—Bids received until Feb. 12, for erection of a steel superstructure for Louise bridge at 9th st. W.; 4 Pratt truss spans each 135 feet long, weight about 400 tons; J. M. Miller, city clerk; bids taken by city commissioners.

**Minn., Bemidji**—Bids will be received until 10 a. m., Feb. 5, at office of county auditor, Beltrami and Roseau counties, for 6 culverts as follows: 5 24x30-inch and 1 30x30-inch, to be delivered and unloaded at Roosevelt on Canadian Northern Railway for judicial ditch No. 22; plans at office of clerk of court



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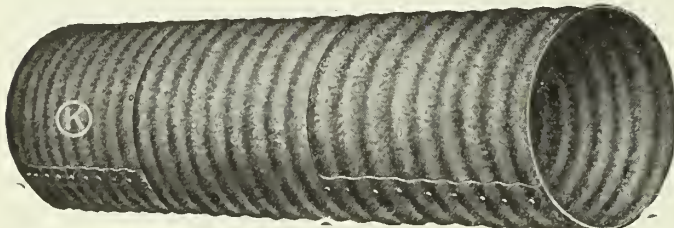
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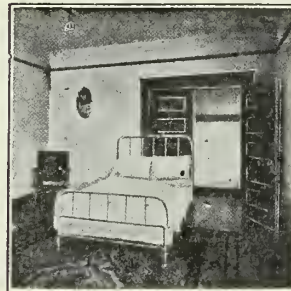
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and county auditor; check 10 per cent; E. J. Bourgeois, engineer.

**Minn., Bemidji**—Bids will be received until 10 a. m., Feb. 5, for culverts in Beltrami county as follows: for judicial ditch No. 13, 3 24x28, 1 24x30, 1 12x28, delivered at Baudette, judicial ditch No. 18, 10 18x28, 2 24x28, 1 30x26, delivered at Kelliher; ditch No. 20, 4 24x30, 1 30x30, delivered at Kelliher; judicial ditch No. 24, 6 24x30, 2 30x30; bids also will be received for hauling and installing same; check 10 per cent; J. L. George, county auditor, Beltrami county; B. K. Blier and E. J. Bourgeois, engineers.

**Minn., Bemidji**—Bids received until 2 p. m., Feb. 5, for 5 steel and concrete bridges according to state highway commission plans at their office and county auditor, Bemidji; bids also received at same time and date for relivering at Roosevelt, Williams, Cedar Spur, Graceton, Pitt and Baudette, Minn., culverts; plans at office of highway commission, St. Paul, Minn., or with county auditor, Bemidji; also bids taken for clearing, grubbing, etc. and installing culverts, state rural highway No. 32; check 10 per cent; J. L. George, county auditor.

**Minn., Bemidji**—Bids received until 11 a. m., Feb. 5, for bridge No. 1549, across Rapid river, about 14 miles south of Baudette, Minn., on judicial ditch No. 30; bids to include retaining wall, approaches, etc.; bridge 120 feet long, 2-spans, steel and concrete, estimated cost \$6,539; to be completed June 1, 1915; check 10 per cent; J. L. George, county auditor, Beltrami county; E. J. Bourgeois, engineer.

**Minn., Bemidji**—Bids will be received until 10:30 a. m., Feb. 5, for hauling and installing 6 culverts on judicial ditch No. 22, Beltrami and Roseau counties; check 10 per cent; J. L. George, county auditor, Beltrami county, G. S. Bertilrud, auditor, Roseau county; E. J. Bourgeois, engineer, Bemidji.

**Minn., Bemidji**—Bids received until 2:30 p. m., Feb. 5, for timber bridges, Nos. 1 and 2, judicial ditch No. 13; plans at office of Middleton & Middleton of Baudette, and office of the Northern News, Spooner, Minn.; check 10 per cent; county auditor, Beltrami county; E. J. Bourgeois, engineer.

**Minn., Faribault**—Bids will be received until Feb. 1, 9 a. m., for improvement of bridge on 3d st. N. Plans at office of City Recorder Ed. F. Kelly. Check for 5 per cent.

**Minn., Hinckley**—All bids rejected on bridges.

**Minn., International Falls**—Bids will be received until 10 a. m., Feb. 2, for steel bridge in sections 11 and 12, across Little Fork, Koochiching county. Check for 20 per cent. Plans at office of L. H. Slocum, county auditor. L. A. Ogaard, engineer.

**Minn., Ivanhoe**—Bids received until 1 p. m., Feb. 10, for state bridge No. 1275, 30-foot span and 30-foot roadway, concrete floor on reinforced concrete foundation; Karl A. Jansen, auditor.

**Minn., Minneapolis**—Bids will be received until 2 p. m., Jan. 25, for 500 tons of deformed mild steel bars for 3d av. bridge; plans and specifications at office of city purchasing agent, 217 City Hall, Kossuth Alexander; check \$300.

**Minn., Rochester**—Bids received until 11 a. m., Feb. 1, for furnishing f. o. b. cars, Rochester, all of steel required in construction of state bridge No. 1613; plans on file at office of county auditor, Lester J. Fiegel, Olmsted Co., or with state highway commissioner, St. Paul; check 5 per cent; two 80 feet, steel trusses, reinforced concrete floor.

**Minn., St. Cloud**—Bids will be advertised for culverts on county road work for ensuing year; N. Thomey, county auditor.

**Neb., Seward**—Bids received until 1 p. m., Feb. 3, for bridge work for 1915, about 25 bridges to be built or repaired; J. R. Roberts, county clerk.

**N. D., Grafton**—Bids received until 1:30 p. m., Feb. 3, for constructing or repairing twenty or more steel, wood, pile bridges. Plans at office of County Auditor O. M. Frazer. Check for 5 per cent.

**Ore., Portland**—Bids will be received until Feb. 23, for bridge in Multnomah and Clark counties, Wash., cost about \$1,750,000; Wadell & Harrington, engineers, Orear-Leslie building, Kansas City, Mo.; address Interstate bridge commissioners, Portland.

**Ore., Portland**—Bids will soon be called for on four reinforced concrete bridges for Columbia highway, at Pierce, Moffet and Tanner creek (a) to be 65 feet high girder bridge, 250 feet long; (b) Moffitt bridge 75-feet high, single arch; (c) Eagle Creek, 60 foot span, cost \$40,000.

**S. D., Elk Point**—Bids readvertised—Bids received until 12 m., Feb. 10, for all steel, concrete and wooden bridges and repair work for 1915. Union county; plans at office of county auditor; separate bids on concrete culverts and bridges, from steel and wood structures; certified check \$2,500; Edward Holden, county auditor.

**S. D., Miller**—Bids received on concrete and steel bridges

in Hand county, were: Iowa Bridge Co., Des Moines, Iowa, Wm. Wilkinson, Rapid City, S. D.; all bids rejected.

**Wis., Neenah**—Bonds of \$8,000 will be voted for repair of bridges spanning the south Race, north Race and Fox river; H. S. Zemlock, city clerk.

#### CONTRACTS AWARDED.

**Iowa, Spencer**—Contract awarded to the Thor Construction Co. of Cedar Falls, Iowa, for large cement bridge at \$37,439.

**Mich., Marquette**—Contract awarded to the Worden-Allen Construction Co. of Milwaukee, Wis., for concrete bridge over Carp river, to be completed next month, 60-foot span.

**Minn., Crookston**—Contract awarded to M. R. Hussey of Crookston, for concrete culverts on judicial ditch No. 52, passing through Polk county, also Norman; steel culverts awarded to the Illinois Steel Bridge Co.; work will begin in the spring; H. J. Welte, county auditor.

**Minn., Roseau**—Contract awarded to the Northern Construction Co., Thief River Falls, for 28 culverts over ditch O, Roseau county; other bids were: Northern Construction Co., Thief River Falls; N. Dakota Metal Culvert Co., Fargo, N. D.; Minneapolis Steel & Machinery Co., Minneapolis; Wheeling Corrugating Co., Minneapolis.

**Neb., Omaha**—Contract awarded to the Omaha Structural Steel Works, city, for repairs and construction of bridge for year 1915, by county commissioners.

**Neb., York**—Contract awarded to Western Bridge & Construction Co., Omaha, for bridge construction in 1915.

**Wis., Prairie du Chien**—Contract awarded to a Milwaukee firm for new steel bridge across Kickapoo at Seeleyburg, at \$4,874, 120-foot span, set on tubular piers, concrete floor work to begin soon, and be completed by June 15.

**Wis., Superior**—Contract awarded to Frank Beckworth for raising, blocking and lowering of Lamborn bridge at \$350.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**Iowa, Council Bluffs**—Bids received by Chas. J. Duff, city clerk, until 8 p. m., Jan. 25, for the sewers, paving, curbing and guttering on av. C, from 8th to 13th st., av. F, from 8th to 13th, av. E, from 8th to 13th; check for 5 per cent.

**Iowa, Davenport**—City is contemplating paving to amount of \$250,000 and grading to cost \$25,000, to come up in the spring; A. R. Boudinot, city engineer.

**Iowa, Iowa City**—Paving work to be done this year comprises 24 blocks on E. Washington st., also the Snooks Grove road and Hill in W. Iowa City; address city clerk.

**Iowa, Marshalltown**—W. E. Nicholson, head of department of streets and alleys, has a long list of streets he wants paved; hopes to get contracts under way during February; has paving in view for a distance of two or three miles.

**Iowa, Mason City**—Reported that the city is contemplating installation of a concrete paving repair outfit for which plans are now being worked out; address city clerk.

**Iowa, Sheldon**—Plans are under way and it is expected bids will be called for in the early spring for city paving, brick and concrete material; address city clerk.

**Iowa, Sioux City**—Repaving of 5th st., Jackson to Pearl, will commence May 1, as agreed between councilmen.

**Iowa, West Liberty**—Bids will be asked for in the early spring on 2½ miles of street paving; fibre brick, concrete gutter and other material, being considered; Barton Anderson, city engineer.

**Mich., Eagle River**—Board of supervisors has granted authority to the highway commission to advertise for proposals for the construction of 3.3 miles of state reward macadam highway from the Cliff mine location to Eagle River, and bids will be asked for at once.

**Minn., Cass Lake**—Hearing Feb. 5 on a rural highway between Cass Lake and Walker, to be known as rural highway No. 82; I. P. Byrhe, auditor, Cass county, Walker.

**Minn., St. Cloud**—Paving plans for 1915 include the resurfacing of St. Germain st., resurfacing 5th av. to 2d st., paving 5th av. to 8th st., paving 9th and Breckenridge av. to G. N. denot and possibly paving of 8th av. S.; the cost will be about \$10,000; C. J. Metzroth, commissioner.

**Minn., Duluth**—Commissioners to ascertain the feasibility of constructing a judicial highway connecting St. Louis and Carlton counties have filed their report recommending that the road be built, one-half to be built this year and the other half next; the total cost is estimated by Rev. J. Rich at \$11,874, made up of the following items: 2,308.33 rods of clearing, grubbing, \$2,885.40; 326.3 rods of corduroying, \$652.60; 2,308.33 rods grading, \$5,770.80; 326.3 rods firm earth covering, \$815.75; 400 rods outlet ditches, \$400; 3,000 cubic yards excavation,





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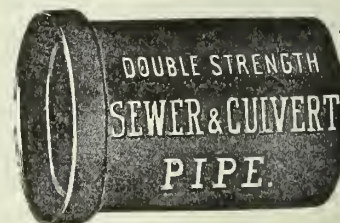
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**Minn., St. Paul**—Preliminary estimates have been made on the paving of Lexington av. with creosoted wood blocks from Summit av. to Como park, a distance of about 2½ miles, and at a cost of \$169,000.

**Neb., Alliance**—Resolution being published for curbing both sides of all streets embraced in street improvement district No. 2; Geo. F. Snyder, city clerk.

**Neb., Columbus**—Expected bids will be advertised for on proposed paving as soon as the work can be begun in the spring; address city clerk.

**Neb., Lincoln**—Ordinance passed creating paving district 228; address city clerk.

**Neb., Norfolk**—Petition is still in circulation for the big paving proposition; property representing 10,000 feet frontage has been secured, but the city engineer says it will be required to have 6,000 feet more; petition in circulation to pave 3d st. with concrete; address city clerk.

**Neb., Omaha**—Council has been considering paving and curbing of 34th st. from California to Webster st., and also the paving of 36th av. from Davenport to Cass st. with asphaltic concrete and curbing with artificial stone; address city clerk.

**Neb., Plattsmouth**—Citizens figuring on paving Chicago and Washington avs.; address city clerk.

**S. D., Sioux Falls**—Hearing Feb. 15 on a quantity of curb and combined concrete curb and gutter; Walter C. Leyse, city auditor.

**S. D., Sioux Falls**—Council has passed resolutions calling for paving of 6 streets, and curbing and guttering of several others; W. E. Leyse, city clerk.

**Wash., Olympia**—Recommendations of the highway department to the legislature, if approved by that body, will provide for the expenditure of \$1,941,902 on highways in east and west Washington, as follows: in western Washington: Tacoma north, \$250,000; Tacoma south, \$350,000; Sunset highway, \$75,000; McClellan Pass highway, \$30,000; National Park highway, \$200,000; Olympic highway, \$200,000; state road No. 8, \$150,000; state road No. 10, \$25,000; eastern Washington, inland Empire highway, \$210,373; Sunset highway, \$129,560; Ritzville to Spokane, \$64,730; Nos. 10 and 12 in Okanogan county, \$64,730; No. 4 in Ferry county, \$32,365; Mead to Newport in Pend Oreille county, \$113,278. Wm. R. Hoy, state highway commissioner and James Allen, engineer, Olympia.

**Wash., Seattle**—County commissioners have voted to use terra cotta instead of granite for facings on the upper two stories of the court house; claimed that this will make a saving of \$33,000; address county clerk.

**Wis., Delavan**—Council has ordered board of public works to have plans and specifications made for the improvement of various streets; H. J. Doane, city clerk.

**Wis., Elkhorn**—New roads contemplated for 1915 at approximate cost of \$70,000 in Walworth county; home macadam, gravel and repairing, and new concrete roads; H. J. Peters, highway commissioner.

**Wis., Kenosha**—Low bidder for brick paving of Ridge st. was the C. Peterson Construction Co., city, as follows: Excavation, 38c; concrete curb-gutter, 52c; Barr brick, \$1.79; Albion brick, \$1.82; total, \$20,300. Other bids: Geo. Wade, Kenosha: excavation, 48c; curb-gutter 55c; brick, \$1.94. Waukegan (Ill.) Improvement Co. (M. M. McCugo and Moran): excavation, 38c; curb-gutter, 50c; S. Western or Albion shale, \$1.86; Barr, \$1.88. Birdsall-Griffith Construction Co., Racine, Wis.: excavation, 45c; curb-gutter, 58c; Barr brick, \$1.94 with Sarco or Texaco filler; 9,400 square yards brick; 5,000 feet curb-gutter; 2,300 cubic yards excavation; asphalt filler.

**Wis., Lake Geneva**—Council has instructed street and alley committee to see to purchasing machinery; Frank A. Briegel, city clerk.

**Wis., Marshfield**—Petition granted to extend Central av. pavement one block south of Omaha tracks. Address city clerk.

**Wis., Merrill**—Council has ordered paving with brick of E. Main st., from Mill to Stuyvesant st.; address city clerk.

**Wis., Milwaukee**—Amount specified in budget for street paving this year is \$250,000, and already paving requests have been made by aldermen for paving totaling \$496,000; address city clerk.

**Wis., Oshkosh**—Board of public works instructed to prepare plans and specifications for improvement of nine streets and one alley by paving; at least three materials will be included in specifications: High st., sheet asphalt, sarcolithic, asphaltic concrete and cement No. 2; Harrison st., cement No. 1, cement No. 2 and sarcolithic; 12th st., cement No. 1, tar macadam and bituminous concrete No. 1; Lake Drive, cement No. 1, tar macadam and bituminous concrete No. 1; West Algoma st., cement No. 1, cement No. 2 and asphaltic

concrete; West Algoma st., brick, cement No. 2 and cedar block; Lincoln av., cement No. 1, tar macadam and bituminous concrete No. 1; Eveline st., cement No. 1, tar macadam and bituminous concrete No. 1; Vine st., cement No. 1, tar macadam and bituminous concrete No. 1; alley, between High and Algoma sts., cement No. 1, asphaltic concrete and creosote block.

**Wis., Superior**—Plans and specifications for four kinds of material, one of which will be selected for lower Tower av., have been prepared by the city engineer, these being brick, sandstone, asphalt and concrete blocks; improvement will be 40 feet wide; Wm. J. Leader, county clerk.

#### BIDS WANTED.

**Iowa, Le Mars**—Announced bids will be received by city clerk until Feb. 2, on paving of S. Main st., to be completed by July 1.

**Iowa, Reinbeck**—Bids received by J. H. Carson, R. F. D. No. 6, until 1 p. m., Feb. 1, for doing road work in English township.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., Feb. 1, for installing new gasoline engines, engine beds and pumps in street flushers, Nos. 1, 2 and 3; check for 10 per cent.

**Minn., St. Paul**—Bids received by August Hohenstein, purchasing agent, until 10 a. m., Feb. 1, for the grading and improvement of Carbou st., from Rice to Marion and Marion from Maryland to South st.; also, at same time, for grading and improvement of Ivy st., from Earl st. to Orange st.; also, at the same time, for grading and improvement of Goodrich av., from Lexington av., west to the C., M. & St. P. railway tracks, and Dunlop st., from Lincoln to Goodrich av., also, at same time, for grading and improvement of Montreal av., from W. 7th st. to Elway st.; also, at same time, for grading and improvement of Barrett st., from Front st. to McKenty st., also, at same time, for grading and improvement of Hyacinth st., from Earl to Orange st. In each case bond required in sum of 20 per cent of amount bid, with two sureties, or check for 10 per cent.

**N. D., Bismarck**—Bids received by R. H. Thistlethwaite, city auditor, until 8 p. m., Jan. 25, for approximately 110 feet of 14-inch culvert pipe across Broadway.

**Wash., Seattle**—Bids received by A. P. Denton, county engineer, Seattle, until Feb. 10, for grading 20 miles of road between Auburn and Enumclaw, cost reported at \$80,000, and for grading 10 miles of road between Beuton and Issaquah, cost reported at \$70,000.

**Wash., Spokane**—Bids will probably be received about Feb. 23 by county commissioners for paving in Deer Park and Waverly, 2 contracts. Work includes about 140,000 square yards asphalt macadam, penetration method, and 150,000 cubic yards excavation and several concrete structures, about 1,500 cubic yards; grading is heavy, as roads are being put on maximum 5 per cent grade; J. W. Starck, county engineer.

**Wis., Milwaukee**—Bids will be taken informally after Jan. 20, by H. J. Kuelling, county highway commissioner, Pereless building, Milwaukee, on 125,000 barrels of cement for road work.

**Wis., Stevens Point**—Bids received by W. L. Bronson, clerk of the board of public works, until 12 m., Jan. 27, for furnishing cement in carload lots during spring and summer of 1915.

#### CONTRACTS AWARDED.

**Iowa, Iowa City**—Contract previously made with Horrabin Paving Co. for 22 blocks of paving will be gone ahead with this year; J. C. Watkins, city engineer.

**Iowa, Manchester**—Contract to Ford Paving Co., Cedar Rapids, Iowa, for 10,000 square yards paving at \$1.65 per square yard, asphaltic concrete 2-inch wearing surface on a 5-inch concrete base.

**Mich., Crystal Falls**—Contract has been awarded by the Iron County Road commission to Hicks & Barber, Vulcan, Mich., for grading 10 3/4 miles of Beechwood-Gogebic road, at \$29,951. Next 3 lowest bids: A. D. McRae, Palatka, Mich., \$30,793; Widell Co., Mankato, Minn., \$30,271; McGrath Construction Co., Green Bay, Wis., \$31,470; A. L. Burrige, county road engineer.

**Mich., Iron Mountain**—Contract to complete the Beechwood extension of the Iron county road has been let to Barber & Hicks, local, at \$29,957 for the 11 miles of road; there were nine bidders.

**Minn., St. Paul**—Contract approved with Keough Bros., for grading of Juno st., from Edgemoor road to Hamline av.

**Wis., Fountain City**—Contract for 150 cord stone for macadamized dugway to Badger Stone Co., city.

**Wis., Kenosha**—Contract to Peterson Construction Co. for grading, vitrified brick paving with asphalt filler and concrete curb and gutter in Ridge st., at \$20,300.



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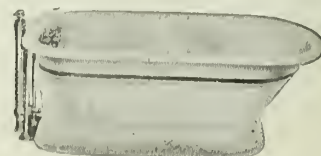


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## SPECIAL NORTHWEST OUTLOOK REPORTS.

(Continued from page 48.)

500; residences, 1914, \$20,000; public buildings, 1914, \$6,000; bank building by American State Bank and bank building by Security State Bank are on list for 1915; Frank Bruehler, auditor.

**S. D., Brookings**—The past season was good for building and public improvements, total building expenditure for 1914 over \$300,000; building prospects for coming year are bright; three business blocks are already assured and without doubt there will be more. The demand for houses is great, in spite of the number built last year, and the following will without doubt erect new homes: H. O. Arenson, Nels, Gullick, Prof. A. J. Willis, Arthur Marvin, Anton Dokken, L. H. Skiff, T. C. Akin, E. C. Miller, Prof. Manley, Champlin, Prof. M. C. Bates, G. W. Van Laningham.

**S. D., Clear Lake**—Past season good for building and general residences, 1914, twenty, \$50,000; proposed, ten; bridges, 1914, eight, \$8,000; proposed for 1915, ten, bids Jan. 6, 1915; there is talk of several churches and residence buildings going up in 1915 and two store buildings; A. L. Larsen, county auditor.

**S. D., Huron**—Past season a good one for building construction; for public improvements, fair; for general business, fair; general prospects for 1915, good; building outlook, good; general business outlook, fair; sidewalks, 1914, \$2,000; curbs and gutters, 1914, \$800; sewers, 1914, \$1,000; residences, 1914, 7, \$21,000; public buildings, 1914, \$250,000; water works, 1914, \$20,000; work done in 1914: Odd Fellows' building, \$35,000; churches, \$85,000; bank, \$25,000; F. C. W. Kuehn, architect.

**S. D., Lead**—Past season fair for building construction; public improvements, good; general business, good; prospects for 1915, very good; building outlook, good; there are now no vacant houses in the town and building must begin soon; paving proposed for 1915, one-half mile concrete and macadam; sidewalks, 1914, \$8,500; proposed for 1915, 7,400 lineal feet concrete, bids about February, 1915; sewers, 1914, \$2,000; proposed for 1915, \$1,500; schools, 1914, \$60,000; proposed for 1915, none; residences, 1914, seventeen, \$18,000; proposed for 1915, two sure; there will be an increase over 1914; public buildings, 1914, \$18,500; Homestake Co. have plans ready for large hospital out do not know whether it will be started in 1915; there will be several residences built in 1915, ranging in value from \$1,800 to \$4,000; J. Wm. Stouder, city auditor.

**S. D., Lemmon**—Past season not good for building construction; general business, fair; general prospects for 1915, fair; water works proposed for 1915, extension of water mains about April 1, amounting to \$11,500; if possible to vote and sell bonds, about \$26,000 will be expended for water works and electric light plants by the city and bids would be called by or about April to May 1st; C. A. Ingalls, city auditor.

**S. D., McIntosh**—Past season good for building construction, public improvements, excellent; general business, fair; general prospects for 1915, good; building outlook, fair; general business outlook, fair; schools, 1914, \$40,000; residences, 100, \$200,000; water works 1914, \$20,000; bridges, 1914, \$25,000; Ralph E. Smith, county auditor.

**S. D., Mitchell**—One quarter of a million dollars has been invested in new buildings completed in Mitchell during the past year. A total of fifty-eight new homes has been constructed at a cost of a little over \$175,000. Business structures valued at \$85,000 were erected. The prospect for 1915 is even more flattering, with respect to the city's growth. A new \$70,000 theater is in process of construction and funds are now being raised over the state for a Methodist Episcopal hospital, which it is believed will be built before the close of the year. The new concrete corn palace, for which plans already have been drawn, will be begun this spring and will represent an investment of close to \$70,000.

**S. D., Sioux Falls**—Past season good for building, public improvements and general business; general prospects for 1915, good; paving total, 1914, seven miles of wood block and asphaltic concrete; curbs and gutters proposed for 1915, considerable; schools, proposed for 1915, one, at about \$100,000; residences, 1914, 250; prospects for steady building, 1915, good; bridges, 1914, \$60,000; proposed for 1915, \$60,000; several miles of asphaltic concrete paving to be built in 1915; possible extension of water mains; Harry H. Howe, county auditor.

**S. D., Sioux Falls**—Conservative estimates of the amount of building done in Sioux City during the month of December fell way short of the actual amount as reported by the city building inspector to the board of commissioners, figures be based on the permits which he had issued. The total was \$219,350, and included several big items, chief of which the Chicago, St. Paul, Milwaukee & Omaha Railroad Co.'s new roundhouse, the new dormitory building at All Saints school, improvements at the East Side Methodist church, and others at the two packing plants here.

**S. D., Sioux Falls**—Building improvements for 1914 totaled \$1,000,000; paving, seventy-three blocks, cost \$250,000.

**S. D., Sisseton**—Past season has been a good one for general business; general prospects for 1915, good; sidewalks, 1914, \$2,000; cement; sewers proposed for 1915, \$40,000, contract not let; residences, 1914, three, \$2,500; public buildings proposed for 1915, \$7,000; Carnegie library contract not let; bridges, 1914, one, \$500, concrete; one brick business block by W. J. Thomas, proposed; Casper Kennedy, secretary, Commercial Club.

**S. D., Sisseton**—Past season good for general business; prospects for 1915, fair; building outlook, fair; general business outlook fair; public buildings, 1914 \$8,000; bridges, total for 1914, \$14,000; O. E. Lien, county auditor.

**S. D., Watertown**—Past season good for building; public improvements and general business, fair; general prospects for 1915, fair; building outlook, fair; general business outlook, good; paving, 1914, \$40,000, (none to be done in 1915); sidewalks, \$5,000; sewers, \$4,000, none proposed for 1915; schools, six schools, two under construction, \$185,000; residences, 1914, thirty; public buildings, \$104,000, new Methodist Episcopal church under construction, \$60,000; proposed for 1915, county poor farm building, \$25,000; bridges, thirteen, 1914, \$6,000, county will build bridges in 1915, will not let general business; general prospects for 1915, good; building outlook, good; schools, 1914, \$5,200; proposed for 1915, \$2,000; contract; J. C. Miller, county auditor.

**S. D., Watertown**—Watertown has had a good year of building construction and prospects are bright for 1915; under construction are: new Luther hospital, \$35,000; private hospital by Dr. H. J. Barton, Methodist church, \$60,000; Episcopal church is planning new building; First National Bank may build; new municipal building, adjoining present location city hall; electric line from city around Lake Kampeska; Cannon estate and J. W. Ferris may build modern business block and Park & Granite may build wholesale house and warehouse; linen mill talked of; city will build new sewerage system, cost about \$100,000, and paving will follow.

**S. D., Yankton**—Building in Yankton during 1914 amounted to \$310,000; twenty residences from \$2,000 to \$15,000. It was a busy season.

**Wis., Antigo**—Prospects good for building in 1915; last year was a good one for construction and general improvements, not only in town, but throughout the county; prospective building for 1915 includes: A garage by the Van Doren Motor Car Co., Superior and 6th, 58x72, 1-story, brick and concrete, galvanized iron roof, 8x16 elevator. Julius Schoblaska and Joseph Guenther will build a business block after fire, which burned the Wolpert department store; 120x52, 2-story; motion picture theater on first floor, offices on second floor.

**Wis., Ashland**—Past season good for building, public improvements and general business; prospects for 1915, fair; building outlook, fair, business outlook, good; sidewalk, 1914, \$5,000; for 1915, \$5,000; sewers, 1914, \$10,000; proposed for 1915, none; school, 1914, \$40,000; proposed for 1915, none; residences, 1914, two, \$6,500; for 1915, one, frame \$4,000; public buildings, 1914, \$105,000; proposed for 1915, \$50,000; water works proposed for 1915, \$5,000; bridges, 1914, \$1,500; for 1915, none; the \$50,000 will be to complete the new court house under construction; Theo. R. Yankee, county clerk.

**Wis., Beloit**—Paving program for 1915 includes numerous streets, with asphalt on concrete; concrete on concrete macadam repaved with asphalt; biggest paving program yet considered; \$70,000.

**Wis., Clintonville**—Past season good one for building construction and general business; prospects for street pavement in 1915; general business outlook, good; paving, 1914, \$25,000, concrete; proposed for 1915, concrete, about \$20,000; bids will be taken some time this winter; engineer on paving, W. F. Reichardt; Julius Spearbraker, city clerk.

**Wis., Columbus**—Past season not good for building construction or public improvements; for general business, good; general prospects for 1915, very good; building outlook, medium; general business outlook, good; paving proposed for 1915, about \$20,000, bids to be taken as soon as plans can be made; sidewalks, 1914, 25,000 square yards; will receive no bids in 1915; curbs and gutters, 1914, \$500; proposed for 1915, \$1,600; water works 1914, \$1,925; proposed for 1915, \$1,100, bids soon; bridges, 1914, \$679; for 1915, \$2,972, contract has already been let; there will be two and one-half miles of state roads built within the city limits this coming year for which bids will be taken as soon as plans can be completed, which will be of concrete, also about 30,000 yards of street paving which will be either brick or asphalt; Benjamin Paepke, city clerk.

**Wis., Fond du Lac**—Retail business in Fond du Lac during



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## SPECIAL OUTLOOK REPORTS.

1914 has held up very well; new retail structures are the Treleven building, a 3-story steel and concrete department store; good prospects; J. C. Busch, secretary Business Men's Association.

**Wis., Grantsburg**—Past season good for building and public improvements; general business fair; prospects for 1915, fair to good; schools, 1914, about \$5,000 in county; residences, 1914, five, \$12,000; public buildings, 1914, \$6,000; for 1915, possibly electric light plant and potato warehouses; bridges six, 1914, \$9,000; for 1915, all with committee; electric light plant, bank buildings, Journal Publishing Co., office building, some residences and barns talked of for 1915; Thos. Tollefson, county clerk.

**Wis., Hurley**—The past season has been a fair one for building construction; for public improvements, good; for general business, fair; general prospects for 1915, looking up; the building outlook, fair; general business outlook, getting better every week; expect business to be normal by May 1, 1915; paving, 1914, \$37,000; schools, 1914, four, \$65,000; proposed for 1915, two, to cost about \$15,000; residences, 1914, three, about \$12,000; public buildings 1914, remodeling, \$10,000; bridges, 1914, four, \$4,800; proposed for 1915, steel and concrete, three, about \$8,000, spring of 1915; the county will expend about \$43,000 on highways, principally earth roads; W. D. Tyler, county clerk.

**Wis., Madison**—Past season good for building construction; improvements, good; general business, good; general prospects for 1915, good; paving, 1914, \$222,000; proposed for 1915, about \$150,000; bids probably in March; asphalt and asphalt macadam; sidewalks, 1914, \$5,000; proposed for 1915, done by private owners; curbs and gutters, included in paving; sewers, 1914, \$30,000; proposed for 1915, \$100,000; schools, 1914, \$100,000, Lincoln and Fair Oaks schools; plans for 1915 out in about 60 days; residences, 1914, 164, \$529,960, apartments, 30, \$207,200; public buildings, 1914, \$493,135, alterations and repairs, \$144,339; water works, 1914, \$65,000, estimated; proposed for 1915, \$30,000, laying mains, bids in June; bridges, 1914, two, \$4,000 each; proposed for 1915, one \$8,000, bids in June; E. E. Parker, city engineer.

**Wis., Madison**—Building record of 1914 was good in spite of handicaps, total construction \$1,327,710; for 1915, improvements in telephone company building, \$35,000; mausoleum, Forest Hill cemetery, completed, 1915, \$32,000; warehouses, \$12,000 each, for City Realty Co. and Heibel Bottling Works; memorial chapel, Evangelical Lutheran church, \$30,000, now building; Alpha Tau Omega fraternity has contracted for chapter house, \$25,000.

**Wis., Manitowoc**—Past season fair for building; public improvements, fair; general business, medium; general prospects for 1915, very encouraging; building outlook, good; paving proposed for 1915, ten blocks; sidewalks, 1914, \$2,700; proposed for 1915, about 6,000 feet cement walks; curbs and gutters, 1914, \$16,000; proposed for 1915, 45,000 feet; sewers, 1914, \$5,000; proposed for 1915, about ten blocks of main, trunk sewer with laterals, etc; schools, 1914, six public schools; residences, 1914, thirty, \$100,000; water works, 1914, eight blocks of water mains, \$3,500; proposed for 1915, \$60,000, revising plant; bridges, 1914, \$4,500; proposed for 1915, bridge, 8th st.; there are several business blocks proposed, a garage for the Ford agency, a moving picture house, an Eagle club house and business block and a manufacturing plant on the list for 1915; Raenber & Nahine, architects.

**Wis., Marinette**—Nearly 19 miles of new road was constructed in 1914; total cost of improvements about \$50,917; Andrew Ecklund, county auditor.

**Wis., Mauston**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; general business outlook, good; macadam paving, 1914, \$7,000; proposed for 1915, macadam, about \$9,000, work in charge of county road system; schools, 1914, \$40,000; proposed for 1915, none; residences, 1914, ten, \$30,000; public buildings proposed for 1915, Odd Fellow temple; water works, not over \$500 proposed for 1915, 4-inch cast iron; during 1914 a factory addition was built costing \$3,000; nothing of importance to report for 1915 so early in the year, but expect something in the near future; Carl J. Blass, city clerk.

**Wis., Milwaukee**—The total cost of building operations in the city for the past year, while falling somewhat below the mark which had been set and which we were led to believe would be realized from indications so generally apparent in the early part of the year, must be considered as making a wonderfully good showing. That this has been accomplished in spite of the many influences which have tended to lessen and depress general building activities during the year past,

is exceedingly gratifying. At the present time it would appear that only a temporary check or postponement of many building projects and enterprises has been experienced which, pending a return of confidence and better weather conditions, will be again taken up and carried forward to completion, so that the prospects for a great revival in building operations for the new year are getting brighter day by day. W. D. Harper, building inspector.

**Wis., Milwaukee**—Past season not good for building; public improvements, fair; general business, not good; general prospects for 1915, good; building outlook, good; paving, 1914, \$1,250,000; proposed for 1915, \$1,000,000; sidewalks, 1914, \$15,000; curbs and gutters, 1914, \$25,000; sewers, 1914, \$410,000; schools, 1914, \$4,000,000; residences, 1914, four hundred twenty-three, \$1,548,475; public buildings, 1914, \$80,000; proposed for 1915, \$140,000; water works, 1914, \$86,000, mains and hydrants; bridges, 1914, \$208,000; proposed for 1915, \$210,000; for 1915, Scientist church, \$100,000; Plankinton hotel, Milwaukee Athletic Club, manufacturing building on W. Water st., 30-family apartment building and many others; Peter F. Leuch, city clerk.

**Wis., Neenah**—Building prospects for 1915 are good and improvement aggregates as much as last year, when over \$100,000 was spent on new buildings; contractors have work to keep busy until spring.

**Wis., Park Falls**—Past season good for building construction, public improvements and general business; general prospects for 1915, good; building outlook, good; sidewalks, \$3,960; proposed for 1915, \$4,000; curbs and gutters, 1914, \$500; proposed for 1915, \$500; sewers, 1914, \$3,400; proposed for 1915, \$3,000; schools, 1914, \$45,000; proposed for 1915, none; residences, 1914, twenty, \$24,000; proposed for 1915, about four, over \$3,000; water works, 1914, \$2,000; proposed for 1915, about \$2,000; \$30,000 hotel in prospect for 1915, address of party unknown to writer; \$10,000 building for First National Bank of Park Falls; addition to Rex theater, S. J. Keefe, proprietor, and a brick business block; J. B. Saunders, city clerk.

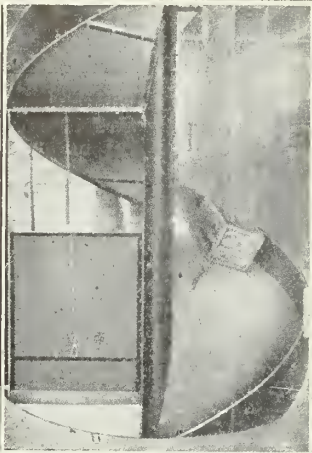
**Wis., Racine**—Public improvements in 1914 cost \$114,723; five miles of cement sidewalks.

**Wis., Sheboygan**—Proposed improvements for 1915 include 4.32 miles concrete paving and .13 miles brick paving; last year total paving, 22 miles.

**Wis., Superior**—F. C. Tomlinson, commissioner of public improvements: "It look as if the coming season would be a good one in which to carry on a large amount of public work. Financial authorities and business men generally seem agreed that very prosperous times are coming to this country. We will probably build about the usual amount of sidewalk and sewers in 1915 and are considering paving the following streets: Belknap and Clough to W. 7th st.; W. 7th st., Belknap to P. av.; W. 5th st., L. av. to Stinson av.; Tower av., 1st st. to 3d st.; Tower av., 58th st. to 64th st.; John av., 56th st. to 64th st.; 58th st., Tower to N. P. Ry. tracks; Weeks, 4th st. to 18th st.; Hammond, 3d st. to Broadway; 4th st., Tower av. to Banks av.; 6th st., Tower av. to Hughitt av.; 18th st., Hammond av. to Grand av.; 21st st., Hammond av. to Baxter av.; Oakes av., Winter to 21st st.; 22d st., Tower av. to Hammond av.; Banks av., 21st st. to 28th st. If the county completes the improvement of the military road and provides a route from the state line to the city limits, we will make a similar improvement from the city limits to Tower av. The city agreed to do this when the county agreed to improve the military road and as the county board has provided for the work in the current levy we will probably be asked to do our part as agreed. As in the past property owners will determine what material shall be used in paving work in most cases. Superior Commercial Club, P. S. Robertson, secretary: "Past season was good for building and public improvements; fair for business in general. In prospect for 1915 are: Completion of \$200,000 normal school and \$100,000 Y. M. C. A.; remodeling Lamborn and Bear creek bridges; proposed Camels' temple, \$60,000; hotel, \$250,000; business block, \$30,000; many residences."

**Wis., Superior**—This county erected in 1914, a new warehouse in connection with a farm, at a cost of \$50,000, located about six miles southeast of Superior on three railroads and a macadam road; also expended \$100,000 on new roads including four miles of concrete and macadam, leading south from the city; we have in our budget for 1915, \$100,000 for roads and bridges but not much will be done or can be done until spring; taxes are being collected now, and payments to date are heavier and being made prompter than a year ago; several hundred new residences were built in the city of Superior during 1914 and the prospects that much will be done in 1915 are good; W. J. Leader, county clerk.





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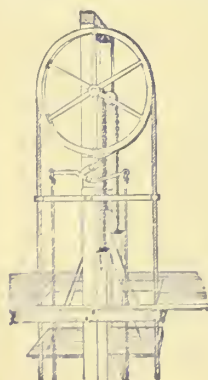
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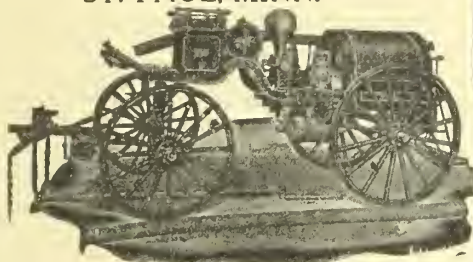
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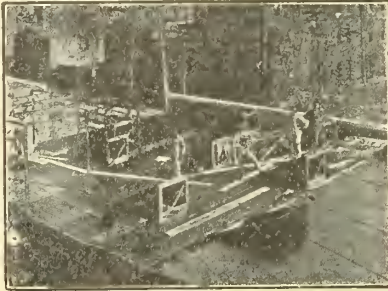
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Volume XLVIII.

Minneapolis, Minn., January 30, 1915.

Number 9

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Clinton Bridge Works, Clinton, Ia.....	22	*Victor H. Leeb, Fargo, N. D.....	34	W. W. Shepard, Minneapolis, Minn.....	33
Contractors Machinery Co., Keokuk, Ia.....	29	*Leslie Paper Co., Minneapolis.....	34	Shevlin-Carpenter Lumber Co., Minneapolis.....	38
Corrugated Bar Co., St. Paul.....	2	Lillyblad, Gust., Red Wing.....	38	Sioux City Brick & Tile Co., Sioux City, Ia.....	24
W. P. Cowles, Minneapolis.....	12	Lott & Co., K. F., Minneapolis and St. Paul.....	28	Speakes Lime & Cement Co., Superior, Wis.....	38
Crane Co., Minneapolis.....	38	Majestic Furnace & Foundry Co., Minneapolis.....	42	Standard Salt & Cement Co., Duluth.....	1
Crane & Ordway Co., St. Paul.....	83	Mantorville Stone Co., Mantorville, Minn.....	40	M. B. Stone, Minneapolis.....	26
Crown Iron Works Co., Minneapolis.....	44	Mason City Brick & Tile Co., Mason City, Ia.....	22	St. Paul Foundry Co., St. Paul.....	26
Roy Curtis, Duluth, Minn.....	12	Mason City Sand & Gravel Co., Mason City, Ia.....	34	St. Paul Lime & Cement Co., St. Paul.....	1
Davenport Machine & Foundry Co., Davenport, Ia.....	20	McCarthy, J. F., Minneapolis.....	38	St. Paul Roofing, Cornice & Ornament Co., St. Paul.....	14
Decker Hardware Co., St. Paul.....	6	Mechanical Specialty Co., St. Paul, Minn.....	31	Sterling Electric Co., Minneapolis.....	36
Denison Fireproofing Co., Mason City, Ia.....	28	Mertes Machinery Co., Milwaukee, Wis.....	12	I. Stephenson Co., Wells, Mich.....	6
Des Moines Bridge & Iron Works, Des Moines.....	26	Metal Weather Strip Co., St. Paul-Minneapolis.....	26	S. Swenson Artesian Well Co., Minneapolis.....	43
Des Moines Structural Steel Works, Des Moines.....	2	Midway Ornamental Iron Works, St. Paul.....	24	*H. C. Thomas & Bro., La Crosse, Wis.....	43
Diamond Labor Agency, Chicago, Ill.....	12	*Milwaukee Concrete Mixer Co., Milwaukee, Wis.....	13	Thorp Fireproof Door Co., Minneapolis.....	36
Dickinson Fire & Pr. Brick Co., Dickinson, N. D.....	14	Minneapolis Blue Printing Co.....	36	*Turner, C. A. P., Minneapolis.....	32
Drake Marble & Tile Co., St. Paul.....	36	Minneapolis Electric Equipment Co.....	13	C. A. Turner, Minneapolis, Minn.....	34
Duluth Corrugating & Roofing Co., Duluth.....	43	Minnesota Art Glass Co., Minneapolis.....	20	Twin City Brick Co., St. Paul-Minneapolis.....	21
Duluth Cut Stone Co., Duluth.....	43	Minnesota Fama Stonewood Co., Minneapolis.....	26	Twin City Tank, Silo & Specialty Co., Minneapolis, Minn.....	12
Dunlop-Moore Co., Duluth.....	43	Minnesota Manufacturers Association.....	44	Twin City Tile & Marble Co., Minneapolis.....	22
Edward Edinger Co., Cedar Rapids, Ia.....	36	Minnesota Roofing & Cornice Works, St. Paul.....	30	Twin City Varnish Co., St. Paul.....	41
*Elker Electric Co., Minneapolis, Minn.....	2	Minnesota Weatherproof Calking & Glazing Co., Minneapolis.....	42	Union Fibre Co., Winona, Minn.....	18
Enterprise Iron Works, Albert Lea, Minn.....	20	The Monarch Company, St. Paul, Minn.....	38	United Iron Works Co., Springfield, Mo.....	16
*Excelsior Brick Company, Menomonee, Wis.....	26	W. K. Morrison & Co., Minneapolis.....	6	*Universal Portland Cement Co., Minneapolis.....	11
*Farnham Printing & Stationery Co., Minneapolis.....	19	Rufus P. Morton, Princeton, Minn.....	14	Van Kassel Revolving Door Co., St. Paul.....	34
*Fast Brick Co., Des Moines, Ia.....	22	*Mortar Mixer Corporation, Iowa City, Iowa.....	43	Vitrolite Construction Co., Minneapolis, Minn.....	28
*Fawcett & Pav. Maakato-Minneapolis.....	34	National Fireproofing Co., Minneapolis-Chicago.....	24	*Voggenreiter Co., E. J., Dubuque, Ia.....	34
*Gallion Iron Works & Mfg Co., Minneapolis.....	11	National Mfg. & Supply Co., Minneapolis.....	38	Warner Hardware Co., Minneapolis.....	6
Wm. Galloway Co., Waterloo, Ia.....	25	New Ulm Stone Co., New Ulm, Minn.....	38	F. Wasielewski, Minneapolis.....	32
Gardner Hardware Co., Minneapolis.....	6	Northern Electrical Co., Minneapolis.....	36	Waterloo Cement Machy. Corp. Waterloo, Ia.....	26
*General Western Material Co., Waterloo, Iowa.....	24	North Star Insulating Co., St. Paul, Minn.....	1	Waterson Engine Co., St. Paul.....	1
*Gibson Mfg. Co., Waterloo, Iowa.....	21	North Star Varnish Co., Minneapolis.....	11	*David White Company, Milwaukee, Wis.....	2
M. J. Grady Picture Mfg., Minneapolis.....	31	Northwestern Bedding Co., St. Paul, Minn.....	31	Wellend Co., Maakato, Minn.....	40
Guy Fred L. Co., Minneapolis.....	16	N. W. Building Material Exhibit, Minneapolis.....	32	Wis Land & Lumber Co., Hermannville, Mich.....	1
Griffin & Boehme, St. Paul.....	31	Northwestern Concrete Steel Co., Minneapolis.....	20	Wolf L. P., St. Paul.....	24
Haakinson & Reaty Co., Sioux City, Ia.....	30	Northwestern Fireproofing Co., Minneapolis.....	22	Ellis Woolman, Minneapolis, Minn.....	28
Advs. marked * appear every other week.		Northwestern Fixture & Cabinet Co., Minneapolis.....	31	Yonkers Steel & Iron Co., Yonkers, N. Y.....	30
Advs. marked † appear in the 1st issue of the month				Advs. marked ‡ not in this issue	



# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

**ARCHITECTURAL MODELING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. F. Lott & Co., Mpls. and St. Paul, Minn.

**ARCHITECTS' SUPPLIES.**  
Minneapolis Blue Print Co., Mpls., Minn.  
**ASBESTOS AND MAGNESIA PRODUCTS.**  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.  
W. S. Nott Company, Minneapolis, Minn.

**ARTESIAN WELLS.**  
J. F. McCarthy, Minneapolis, Minn.  
S. Swenson Artesian Well Co., Minneapolis, Minn.

**BANKS.**  
Northwestern National Bk., Mpls., Minn.  
**BANK AND STORE FIXTURES.**  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

**BOILERS.**  
Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
Mechanical Specialty Co., Minneapolis, Minn.

**BONDS-SURFITY.**  
Hood & Matschke Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls., St. Paul, Minn.

**BIASS GOODS.**  
National Mfg. & Supply Co., Mpls., Minn.  
**BRICK AND TILE.**

American Brick & Tile Co., Mason City, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Boone Brick, Tile & Paving Co., Boone, Ia.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Excelsior Brick Co., Menomonie, Wis.  
Flint Brick Co., Des Moines, Ia.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hebron Fire & Pressed Brick Co., Hebron, N. D.  
Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Lehigh Sewer Pipe & Tile Co., Fort Dodge, Iowa  
Mason City Brick & Tile Co., Mason City, Ia.  
Rufus P. Morton, Princeton, Minn.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.

Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Sioux City Brick & Tile Works, Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

**BRIDGES.**  
American Bridge Co., Minneapolis, Minn.  
Clinton Bridge Works, Clinton, Ia.  
Corrugated Bar Co., St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**BUCKETS-CONTRACTORS'.**  
H. B. Jones, Security Bank, Minneapolis  
G. E. Ingersoll & Co., St. Paul, Minn.

**BUILDING MATERIAL.**  
Baxter Sash & Door Co., Duluth, Minn.  
Blesanz Stone Co., Winona, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlon-Moore Co., Duluth, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul  
Scott-Graft Lumber Co., Duluth, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**BUILDERS' SPECIALTIES.**  
Dunlon-Moore Co., Duluth, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Palme & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
G. A. Turner, Minneapolis, Minn.

**CALKING PASTE.**  
Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.

**CEMENT.**  
Atlas Portland Cement Co., Minneapolis  
Carnay's Cement Works, Mankato, Minn.  
Fowler & Pay, Mpls and Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Johns-Manville Co., Mpls. and St. Paul, Minn.  
N. W. States Portland Cement Co., Mason City, Iowa  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
Shevlin-Carpenter Lumber Co., Minneapolis

St. Paul Lime & Cement Co., St. Paul, Minn.  
Universal Portland Cement Co., Minneapolis

**CELLS, STEEL.**  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**CEILING, STEEL.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Canton Steel Ceiling Co., Minneapolis, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis  
H. C. Thomas & Bro., La Crosse, Wis.

**CEMENT FILLER.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**COAL CHUTES.**  
American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**COLD STORAGE PLANTS.**  
Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.

**CONCRETE CONSTRUCTION.**  
Avery Steel & Iron Co., Minneapolis  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

**CONTRACTORS LEVELS AND SUPPLIES.**  
David White Co., Milwaukee, Wis.  
**CONCRETE MACHINERY.**  
Atlas Engineering Co., Milwaukee, Wis.  
Badger Concrete Mixer Co., Milwaukee, Wis.  
Braestad Concrete Mach. Co., Canton, S. D.  
Cement Tile Machinery Co., Waterloo, Ia.  
Contractors Machinery Co., Keokuk, Iowa  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
N. W. Concrete Steel Co., Minneapolis  
N. W. Steel & Iron Works, Eau Claire, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.  
Waterloo Cement Machinery Co., Waterloo, Iowa

Ellis Woolman, Minneapolis, Minn.  
**CONCRETE REINFORCING BARS.**  
Avery Steel & Iron Co., Minneapolis  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**CORNICES.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

**CORRUGATED IRON, ETC.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Avery Steel & Iron Co., Minneapolis  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.

**CONCRETE REINFORCING.**  
Berger Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

**CONTRACTORS' SUPPLIES AND MACHINERY.**  
Decker Hardware Co., St. Paul, Minn.  
Mertes Machinery Co., Milwaukee, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Ellis Woolman, Minneapolis, Minn.

**CULVERTS.**  
Berger Mfg. Co., Minneapolis, Minn.  
Blesanz Stone Co., Winona, Minn.  
Galion Iron Works, Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.

**CRUSHED STONE.**  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.

**DEADENING MATERIAL.**  
Cement Tile Machinery Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

Union Fibre Co., Winona, Minn.  
**DECORATIONS.**

Odin J. Oyen, La Crosse, Wis.  
**DITCHING MACHINES.**  
Bay City Dredge Works, Bay City, Mich.  
United Iron Works, Springfield, Mo.

**DREDGES.**  
Bay City Dredge Works, Bay City, Mich.  
**ELECTRICAL ENGINEERING.**  
Beck Electrical Construction Company, Minneapolis, Minn.

Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Northern Electrical Co., Minneapolis, Minn.  
**ELECTRIC MOTORS AND SUPPLIES.**  
Beck Electrical Construction Company, Minneapolis, Minn.

Elker Electric Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

Sterling Electric Co., Minneapolis, Minn.  
**ELECTRIC SPECIALTIES.**  
Elker Electric Co., Minneapolis, Minn.  
**ELEVATORS AND ENCLOSURES.**  
Kimball Bros. Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.  
Frank A. Pigeon, Minneapolis, Minn.

**ELEVATOR CABS.**  
N. W. Fixture & Cabinet Co., Mpls., Minn.  
**ENGINEERS.**  
Oscar Claussen Engineering Co., St. Paul, Minn.

Lewis A. Larson, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

**EXCAVATORS.**  
Bay City Dredge Works, Bay City, Mich.  
**FIRE ESCAPES.**  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.

Davenport Mach. & Fdy. Co., Davenport, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**FIRE HYDRANTS.**  
Waterous Engine Works Co., St. Paul, Minn.  
**PIPEPROOF DOORS.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Thorp Fireproof Door Co., Minneapolis, Minn.  
**FLUE LINING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Lime Co., St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
**FIRE PROTECTION APPARATUS.**  
Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

**FIREPROOFING DOORS AND SHUTTERS.**  
Haakinson & Beatty Co., Sioux City, Iowa  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

**FLOORING.**  
American Torgomond Flooring Co., Minneapolis  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Fama Stonewood Co., Minneapolis  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graft Lumber Co., Duluth, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
J. Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.

**FURNACES.**  
Bovee Furnace Works, Waterloo, Iowa  
Gibson Mfg. Co., Waterloo, Iowa

**FURRING.**  
Corrugated Bar Co., St. Paul, Minn.

**GAS AND ELECTRICAL FIXTURES.**  
Jerdee & Hendrickson, Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

**GLASS.**  
American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

**GRAVITY CARRIER.**  
Minnesota Manufacturers' Association, North St. Paul, Minn.

**HARDWARE TRIMMINGS.**  
Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

**HEAT REGULATORS.**  
Andrews Heating Co., Minneapolis, Minn.

**HEATING AND VENTILATING.**  
Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

**HOISTS.**  
H. W. Johns-Manville Co., Minneapolis  
Koehring Machine Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**HOSE.**  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can be found by referring to the Alphabetical List of Advertisers

W. S. Nott Company.....Minneapolis, Minn.  
Waterous Engine Works Co.....St. Paul, Minn.

**INSULATING MATERIAL.**  
Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

**INSURANCE.**  
Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matuschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

**IRON AND STEEL WORK.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Des Moines Structural Steel Works.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

**JOIST HANGERS.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....St. Paul, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

**LABORERS.**  
Diamond Labor Supply Co.....Chicago, Ill.

**LIME.**  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Landers-Morrison-Christensen Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speake's Lime & Cement Co.....Superior, Wis.  
Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

**MANTELS—GRATES.**  
Drake Marble & Tile Co.....St. Paul, Minn.  
Dunton-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

**MARBLE, TILING, MOSAIC.**  
Drake Marble & Tile Co.....St. Paul, Minn.  
Dunton-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

**METAL SHINGLES.**  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
W. S. Nott Company.....Minneapolis, Minn.

**METAL AND WIRE LATH.**  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
General Western Material Co.....Waterloo, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.

**MILLWORK.**  
Baxter Sash & Door Co.....Duluth, Minn.  
Osmond Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graft Lumber Co.....Duluth, Minn.

**MORTAR MIXERS.**  
Mortar Mixer Corporation.....Iowa City, Iowa  
Standard Salt & Cement Co.....Duluth, Minn.

**MUNICIPAL CASTINGS.**  
Davenport Mach. & Fdy. Co.....Davenport, Ia.  
Farnham Printing & Sta. Co. Mpls., Minn.

**ORNAMENTAL IRON AND WIRE.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.  
**PAINTS, FILLERS, ETC.**  
Gardner Hardware Co.....Minneapolis, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn.  
Jackson Mineral Paint Works.....Milwaukee, Wis.

**PACKINGS AND HOSE.**  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

**PAVEMENT.**  
Barrett Mfg. Co.....New York, N. Y.  
**PIPE—CAST IRON.**  
American Cast Iron Pipe Co.....Minneapolis, Minn.

**PIPE AND BOILER COVERING.**  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

**PLASTER—WALL.**  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

**PLASTERING—ORNAMENTAL.**  
Monarch Co.....St. Paul, Minn.  
Roy Curtis.....Duluth, Minn.

**PLASTERERS' SPECIALTIES.**  
Hydraulic Press Brick Co.....Minneapolis, Minn.

**PLASTIC ORNAMENTS.**  
Monarch Co.....St. Paul, Minn.  
K. F. Lott & Co. Mpls. and St. Paul, Minn.

**PRINTING.**  
Farnham Printing Co.....Minneapolis, Minn.

**PRISMS.**  
American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis, Minn.

**PLUMBING AND HEATING JOBBERS.**  
National Mfg. & Supply Co.....Mpls., Minn.  
**REVOLVING DOORS.**  
Van Kannel Revolving Door Co.....St. Paul, Minn.

**ROAD MACHINERY.**  
Gallon Iron Works.....Minneapolis, Minn.

**ROOFING GRAVEL AND ASPHALT.**  
Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Seibner-Libby Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.  
Selden Roofing & Manufacturing Co.....Minneapolis, Minn.

**ROOFING—METAL.**  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Duluth Corrugating & Roofing Co.....Duluth, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
N. W. Roofing, Cornice & Stamping Works.....Minneapolis, Minn.  
H. C. Thomas & Bro.....La Crosse, Wis.

**ROOFING MATERIAL.**  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Barrett Mfg. Co.....New York, N. Y.  
Biesanz Stone Co.....Winona, Minn.  
Corruera Bar Co.....St. Paul, Minn.  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.  
Shevlin-Carpenter Lumber Co.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

**ROOFING AND SIDING—IRON AND STEEL.**  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn.

**SAND AND GRAVEL.**  
Mason City Sand & Gravel Co.....Mason City, Ia.

**SHINGLES—RUBBER.**  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

**RUST-RESISTING IRON SHEETS.**  
Berger Mfg. Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

**SAND AND GRAVEL.**  
Biesanz Stone Co.....Winona, Minn.  
General Western Material Co.....Waterloo, Ia.  
Standard Salt & Cement Co.....Duluth, Minn.

**SASH AND DOORS.**  
Baxter Sash & Door Co.....Duluth, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Osmond & Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graft Lumber Co.....Duluth, Minn.  
Shevlin-Carpenter Lbr. Co.....Minneapolis, Minn.

**SEWER PIPE AND DRAIN TILE.**  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Sewer Pipe & Tile Co. Des Moines, Ia.  
Lehigh Sewer Pipe & Tile Co.....Fort Dodge, Iowa  
Northwestern Lime Co.....St. Paul, Minn.  
Plymouth Clay Products Co.....St. Paul, Minn.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.

Standard Salt & Cement Co.....Duluth, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

**SHADE ADJUSTERS.**  
Wm. J. Work.....St. Paul, Minn.

**SHEETS—IRON AND STEEL.**  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.

**SIDEWALK LIGHTS.**  
American Luxfer Prism Co.....Chicago, Ill.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Berger Mfg. Co.....Minneapolis, Minn.  
General Western Material Co.....Waterloo, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa  
K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

**SLATE BLACKBOARDS.**  
Haakinson & Beatty Co.....Sioux City, Iowa  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Minneapolis, Minn.

**SKYLIGHTS.**  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
H. C. Thomas & Bro.....La Crosse, Wis.

**STACK LINING.**  
H. W. Johns-Manville Co.....Minneapolis, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

**STEEL—BARS.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

**STONE.**  
Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....Sauk Rapids, Minn.

**STRUCTURAL SECTIONS AND SHEETS.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa

**TANKS—STEEL.**  
American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

**TANKS—WOOD.**  
Twin City Silo & Specialty Co.....Minneapolis, Minn.

**TERRA COTTA.**  
Belt Line Brick Co.....Mpls. and St. Paul  
General Western Material Co.....Waterloo, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....Minneapolis and St. Paul, Minn.

**THEATER EQUIPMENT.**  
The Monarch Co.....St. Paul, Minn.

**TILE—CLAY—PARTITION AND FLOOR.**  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

**VARNISHES.**  
Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

**VALVES.**  
Crane Co.....Minneapolis, Minn.  
Crane & Ordway.....St. Paul, Minn.  
Mechanical Specialty Co.....St. Paul, Minn.

**VENTILATING SYSTEMS.**  
Hackney Ventilating Co.....Minneapolis, Minn.  
G. A. Turner.....Minneapolis, Minn.

**WALL BEDS.**  
Northwestern Bedding Co.....St. Paul, Minn.

**WATERPROOFING.**  
General Western Material Co.....Waterloo, Ia.  
Gardner Hardware Co.....Minneapolis, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

**WATER TOWERS. STEEL.**  
American Bridge Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Minneapolis Steel & Machinery Co.....St. Paul Foundry Co.....St. Paul, Minn.

**WATER WORKS EQUIPMENT.**  
Waterous Engine Works Co.....St. Paul, Minn.

**WIRE AND IRON WORKS.**  
Builders Iron Works.....Minneapolis and St. Paul, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....St. Paul, Minn.

**WEATHER STRIPS.**  
Metal Weather Strip Co.....St. Paul, Minn.

**WOODWORKING MACHINES.**  
G. E. Ingersoll.....St. Paul, Minn.

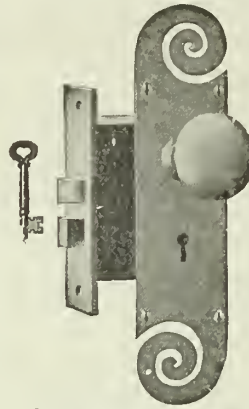


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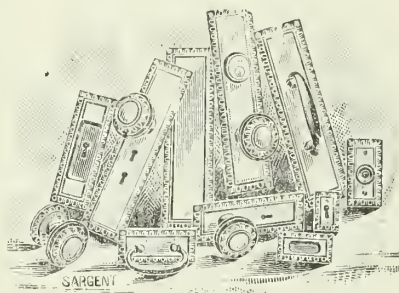


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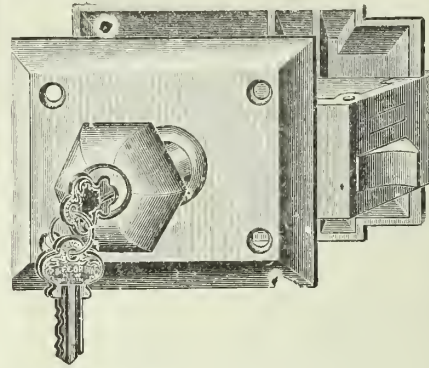
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633 Ryan Building  
ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, JANUARY 30, 1915

NUMBER 9



## EDITORIAL



O. L. COLBURN, Editor

### A SCHOOL BOARD ARCHITECT.

Either the proposition to have an architect in the employ of the board of education, devoting all his time to this work, has met with unexpected opposition or the board has not decided when to start the new department. At any rate the Civil Service Commission has not set a date for the examination.

There is a strong opposition to the departure of establishing a planning bureau of the school board. Fundamentally the objection of many is against the idea of a city architect, or a municipal bureau of architecture. This smacks of unnecessary city interference with private enterprise; and is a step towards Alderman Peterson's proposition to establish a city building bureau which would take the place of contractors and architects in private practice. The Tribune has stated another good reason to oppose the board's project:

"If there were in the world one man who could design buildings for all these uses, accommodating the special needs of each institution, reflecting in his designs our modern progress in managing such institutions—How preposterous the assumption is!—he would be worth a very large salary indeed. He could earn more in any one of these several fields than Minneapolis now pays any of its officials or ever will pay any of them. And when he had worked two years or three, and a hospital, a library, a police or fire station, and three or four schools had been erected, the city would have sacrificed all the advantage that lies in variety of design.

"Our board of education does not, of course, propose any such thing. Its course for many years gives full assurance against any such misjudgment. Yet what the board has considered threatens much the same evil consequences. Suppose it is proposed to spend \$20,000 to remodel a school building, costing \$100,000 to build. Is such a responsibility to be entrusted to a man whose whole year's time is worth but \$3,500?

"The cost in his time alone, without counting drafting charges, rent, light, heat and aid in superintendence, would reach \$300. The regular 5 per cent charge for the services of the ablest architects of the west would be \$1,000. Would any business man in his senses, having regard for his total investment of \$120,000, hesitate between the two?

"If business men would not, Minneapolis should not."

The employment of a school board architect and establishment of a bureau of plans will make it necessary to hire draftsmen. How many only time can tell. Modern school building plans for a city of first class standards are not simple. Expense will follow expense to supply the staff and equipment. The city will find out as Charles H. Johnston, who plans the state buildings, once showed in a statement, that the production of excellent plans and specifications for public structures is not all profit by any means.

Incidentally the ever-lively question is involved: How earnestly can we invite people to settle in our city if we are going to discourage private enterprise at every opportunity?

### NEWS AND NOTES OF THE NEW YEAR.

A project is under way in Koochiching county, Minn., for the establishment of five hundred miles of state ditches for draining a large amount of land there. A. B. Harrell of Bemidji, has been appointed as chief engineer for the work and the preliminary surveying has already been started. Five crews will be engaged in doing this surveying, each crew

having a stretch of one hundred miles to cover. It is estimated that it will take three months to complete the survey. A number of men from Grand Rapids and the surrounding villages have been employed for this work and one crew left last week for Keliher, near which place they will start work at once. C. A. Myers, formerly with the Interstate Mining Co., has charge of this crew and the men who went with him were: L. J. Scinto, John Penton, L. A. Lidberg, Frank LaMere, Jonas Wicklund, Otto Litchke, Bernard Craig and Clarence Tuneberg. Other crews will be run by Edw. Kremer, Lloyd Johnson and H. C. Bolthouse and these gentlemen expect to have their men selected and start work next week.

In the Rivers and Harbors bill, passed by the House at Washington, the Minnesota items include \$1,200,000 for improvements in the river below St. Paul; \$225,000 for the high dam, Minneapolis; \$2,000 for river improvement between Brainerd and Grand Rapids; \$2,000 for Warroad, Minn., harbor; \$1,000 for Zeppa Bay, Lake of the Woods. Congressman Steenerson wanted \$2,750 for Rainy River improvements, but he did not get it.

Senator Sullivan of St. Cloud introduced a resolution calling upon the state board of control to state why Minnesota stone has not been used more in the construction of state buildings and the St. Cloud granite industry is awaiting the result of the inquiry. The resolution was adopted. Senator Sullivan, who is not the senator of the same name from Stillwater, champion of the Twin Ports-Twin Cities waterway, also introduced a resolution to investigate the fees of architects. When this fee question came up in the flurry about two years ago, Charles H. Johnston, of St. Paul, who has been virtually state architect for a number of years, gave a clear and convincing statement of the reasonableness of his pay from the state.

Representative T. J. Green, of St. Paul, has introduced a bill in the Minnesota legislature which would authorize county boards to build homes for boys and girls. The bill specified counties of 200,000 to 300,000 population. The inmates would be children brought into juvenile courts. The bill passed.

More groups of counties have selected sites and made appropriations for the establishment of county sanatoria. Dr. Robinson Bosworth, secretary of the state advisory commission, returned from a trip through the state in the interests of the county sanatoria movement and reported, at St. Paul, that Lac qui Parle, Chippewa, Yellow Medicine, Glenville and Redwood counties have joined in the work and will establish a \$60,000 sanatorium at Granite Falls. Grant, Douglas, Stevens and Pope counties will build a \$60,000 institution at Glenwood. Brown, Nicollet, Le Sueur, Blue Earth, Watonwan and Waseca counties are co-operating and will announce their site soon. Freeborn, Steele, Dodge and Mower counties will locate their sanatoria at Austin.

The architecture and building fraternity has been given liberal representation on the board of directors of the New Orleans Association of Commerce, a commercial organization that is developing a new economic era in New Orleans and Louisiana. Two of the leading architects of that city, Allison Owen of Diboll and Owen, and Charles A. Favrot of Favrot and Livaudais, were recently elected members of the board of directors of the New Orleans organization, and Ernest Lee Jahncke of the Jahncke Navigation Co., building materials, has been elected vice president. In the opinion of the architects and builders of New Orleans, Messrs. Owen, Favrot and Jahncke's selection was a fitting recognition of the interest these gentlemen have taken in the broader phases of civic work and community upbuilding.



# Competition for A Model Tenement House

Architects and draftsmen are invited to take part in an architectural competition instituted by the housing commission of the city of Los Angeles to secure plans for tenement houses. The competition has the approval of the Southern California Chapter of the American Institute of Architects through its committee on education, which assisted in the preparation of the program. The circular of information follows:

"The housing commission of the city of Los Angeles desires to stimulate interest in the living and housing of the unskilled wage-earners of our city. They desire to encourage and to aid the building of proper houses for such of our people, and, by so doing, to counteract the tendency of landlords to crowd these numerous people into tenements and flats and house courts.

"They desire that these houses should be for individual families, one family to a building. They desire that these houses shall be arranged on the land so that each shall be given its proper air, light, ventilation, privacy, and its own yard and entrance. They desire that the land and premises about these houses shall be well drained; shall have paved walks, and yards and lawn spaces, and shall be arranged so that each house shall have its individual flower garden.

"They desire the houses to be plain, simple buildings of wood or masonry, with rooms of proper sizes, well arranged for privacy and convenience, well lighted, well ventilated,—with plain plastered walls and ceilings and wood floors, and every plain and simple finish, fittings and fixtures.

"They desire the exterior of the houses to have individuality of design and capable of variation sufficient to relieve monotony.

"The housing commission desires help to aid them to bring this housing problem before the public and investors, therefore:

"The housing commission of Los Angeles invites sketches, drawings and designs of such houses and premises to be submitted to them in accordance with the conditions which follow.

"These sketches, drawings and designs to be as follows:

"Exhibit No. 1. Block plan of land and premises showing houses, garden and lawn plots, yards, walks, entrances, streets, etc. There will be two block plans on this drawing. Scale 1-16-inch equals 1 foot.

"Exhibit No. 2. Floor plan of houses—one plan of each type used in exhibit No. 1. There will be three or more plans on this drawing. Scale ¼-inch equals 1 foot.

"Exhibit No. 3. Front and side elevation of each type

of house, or preferably a perspective elevation of each type used in exhibits No. 1 and No. 2. Scale ¼-inch equals 1 foot.

"Exhibit No. 4. A written synopsis or specification of the materials of construction it is proposed should be used in the houses, together with quantities of materials in each type of house, or an estimated cost of same.

"All drawings shall be in black and white on Whatman's paper, and if pencil is used, drawings must be properly fixed. Drawings shall be stretched and mounted on stiff cardboard backs with neat borders. Drawings shall be labeled and marked only with the 'nom-de-plume' of the designer.

"Synopsis to be typewritten on legal cap, with neat covers, and labeled and marked as for drawings.

"The conditions of the problem are as follows:

"There is an hypothetical owner with two properties in our city near the industrial district, on which two properties he desires to build a number of houses for his unskilled workmen, and to derive a small revenue therefrom.

"One property is an entire rectangular block surrounded by four streets, the size of the land being 650 feet north to south and 300 feet east to west.

"The other property is an inside lot with 100 feet frontage on a street and 150 feet deep. The street runs north and south, and the property is on the east side of the street.

"Both properties are approximately level and twelve inches above the public sidewalk.

"This owner desires to comply with all the provisions of the state laws of California governing tenement houses insofar as any requirements of such laws set forth minimum requirements for light, air, ventilation, yards, etc., and of the ordinances of the city of Los Angeles governing the erection and construction of house courts and buildings. He desires to build better than such laws and ordinances require if he can afford to do so, and will consider carefully any designs submitted which give more air, light, ventilation, fire or sanitary protection to his tenants than required by such laws and ordinances, and yet the cost of which do not preclude such improvements.

"On the larger property this owner limits the number of houses to the proportion of not to exceed ten (10) to the acre; on the smaller property the number of houses is limited by the yard and court areas, and by the proportion of the lot occupied by the houses, and the necessary yard and court areas and proportion of lot occupied shall be at least

(Continued on page 41.)

## UNUSUAL EXHIBITS BY THE UNIVERSAL PORTLAND CEMENT COMPANY AT THE EIGHTH ANNUAL CHICAGO CEMENT SHOW.

Of the one hundred fifty listed exhibitors who will fill the Chicago Coliseum and annex when the eighth annual cement show opens, February 10, all will show features of more than ordinary interest and value. All the products involved in the steadily growing cement industry will be fully represented. Materials and machinery produced by the country's representative manufacturers will be there in fact and the manufacturing processes in connection with many will be shown graphically by models and charts.

The many special features to be brought out by the Universal Portland Cement Co. in its exhibit occupying the entire north end of the Coliseum will have an out-of-the-ordinary interest and bear out this company's policy of supplying constructive suggestions in addition to merely attracting attention to its produce.

The setting will be attractive. Along the aisle pedestals, typical of ornamental concrete, will bear miniature growing Japanese gardens and with brass railings will outline the spaces containing the exhibits. In the rear along the walls will rise paneled mahogany wainscoting to a height of eight feet, above which, and half again as high, is to be a specially prepared wall decoration stippled in blue. Running the entire length, approximately 140 feet, a specially constructed beamed ceiling will crown this exhibit and give unity to the whole. The effect of the mahogany beams and blue panels of the ceiling will be pleasing. Features of the exhibit will include fire resistance, lessons from the Edison fire, concrete roads, materials, farm concrete work, educational demonstration, bulk cement.

## THE ONE-ROOM APARTMENT BUILDING.

Milwaukee is to have a flat building devoted entirely to 1-room apartments, and the fact shows that we have reached the limit in economy of space and saving of rent money. There are many one-room and bath apartments, with kitchens, but comparatively few instances of flat buildings whose appeal is to the extreme requirements by offering a chance to live, sleep, eat and cook in the same room. A concession is made: the bath is not in the same room.

In the Milwaukee building the principal room will be 12x13. It will have to be a combination living room and bedroom and possibly a kitchen. Whether the presence of a bed will make the bedroom feature predominate, or whether a sanitary couch will make it seem more like a living room will depend on the taste of the occupant. With a gas plate or a chafing dish he can introduce a kitchen feature. These apartments are intended particularly for bachelors. The building will have light and air on the south as well as the west side. A court will supply light and air on the north side. The dimensions will be 40x131, and it will have four stories. There will be thirty-two apartments. The foundation and the flooring on the first story will be of concrete. The skeleton will be of steel and the walls of brick. The partitions on the halls and stairways will be fireproof. The building will be finished throughout in hardwood. The main stairway will be of marble and iron. The rear stairways will be of iron, and the balconies of iron and concrete. The vestibule will have a marble wainscoting. There will be a freight elevator and a garbage incinerator. Leenhouts & Guthrie of Milwaukee, are preparing plans and will be ready for bids soon.



# PERSONAL AND GENERAL NEWS.

Doings of the Northwest this Week Boiled Down for Busy Readers

## N. W. CLAY CONVENTION.

There was a large increase in attendance at the annual meeting of the N. W. Clay Association in Minneapolis, this year over last year, and a big increase in general interest and success of the session. An indication of this was seen in the fact that instead of three questions in the question box last year there were twenty-five topics introduced in this way this year. The program of the papers and talks included a notable explanation of important points in fire insurance by John J. Thomas, Chicago; Cost Finding, by W. C. Koch, Twin City Brick; Dangers of Changes in Lien Laws, by Geo. M. Gillett, Minneapolis; Clay Storage, C. W. Avery, Aurora. The banquet, with E. H. Cobb of the Hydraulic Press Brick Co. presiding, was one of the brightest events of the meeting. Among those who attended this year were: F. J. Passe, Preston, Minn.; H. J. Votaw, with J. D. Fate Co., Plymouth, Ohio; W. H. Merkel, American Clay Machinery Co., Bucyrus, Brick Co.; J. W. Parmley, secretary, Aberdeen Pressed Brick Co., Ipswich, S. D.; Geo. A. Clark, Gold Bros. Brick Co., Big Stone City, S. D.; C. K. Willar, manager, Heron Lake Brick & Tile Co., G. E. Luce, Lambert Process Co.; A. C. Ochs Brick & Tile Co., Springfield, Minn.; F. B. Jenks, Hook Patent Kiln Co., Vigo, Ohio; James Leck, Flour City Brick Co.; Colby M. Avery, Stephens Adams Manufacturing Co., Aurora, Ill.; F. C. Tate, Tate Johnson & Tate, Cannon Falls, Minn.; H. E. Stewart, Mankato, Minn.; Edward Bogk, president, Rickertson Mineral Paint Works, Milwaukee; L. G. Rose, manager, Minntapolis Brick & Clay Co.; S. G. Johnson Co., Minneapolis; L. B. Buxton, Globe Machinery Co., Des Moines, Iowa; E. H. Cobb, Hydraulic Pressed Brick Co.; John Lowry, Enterprize Brick Co., Duluth; T. J. Murray, John F. McDonald Lumber Co., Minneapolis; F. A. Johnson, Cannon Falls; Henry Hess, St. Cloud, Minn.; W. T. Madsen, Hutchinson, Minn.; J. A. Glandon, Mexico Brick & Fire Clay Co., Mexico, Mo.; J. J. Hess, St. Cloud, Minn.; Zumbrota Clay Manufacturing Co.; H. M. Jones, Murray Iron Works, Burlington, Iowa; J. R. Farnam Flour City Brick Co.; Louis Koch, Twin City Brick Co.; E. R. Dunlop, Mason Brick & Tile Co., Mason City, Iowa; A. H. Martin, American Brick & Tile Co., Mason City, Iowa; T. W. Cameron, Mason City Brick & Tile Co.; J. W. Iazear, Brown Instrument Co., Chicago; V. A. Headman, Winnebago, Minn. Drain Tile Co.; Ira C. Jones, Minneapolis Brick & Tile Co.; A. C. Schroedder Brick & Tile Co., Shakopee, Minn.; B. F. Pay, Fowler & Pay, Mankato, Minn.; F. G. Panenberg & Co., Mankato; Jacob Voelker, Voelker & Groff, Winona, Minn.; Chas. Schneider, Millerville, Minn.; E. M. Edgington, Minnesota Brick & Tile Co., Zumbrota, Minn.; Ed. Barr, Arbuckle & Co., Austin, Minn.; Guy Nettleton, Main Belting Co., Mason City; Wm. C. Coke Tile & Clay Brick Co.; O. J. Dommer, St. Anthony Brick Yard; H. R. Heim, Westinghouse E & M. Co. and C. W. Drake, Westinghouse Co., Pittsburgh; A. P. Green, Mexico Brick & Tile Co., Mexico, Mo.; H. M. Farnam, Princeton Brick Co., Brickton, Minn.; J. P. McLean, Excelsior Brick Co., Menomonie, Wis.; Chas. T. Harris, Hollow Building Tile Manufacturers' Association, Cleveland.

## THE THIRTEENTH ANNUAL DINNER OF BUILDERS' EXCHANGE OF ST. PAUL.

With 475 guests present the annual dinner of the St. Paul Builders' Exchange, Tuesday evening, was the largest gathering of those associated with the building industry ever held in the west. Delegations from Minneapolis, Duluth, Faribault, Stillwater, St. Cloud, Winona, White Bear and other points, present. The principal guests were Gov. Hammond of Minnesota; Mayor Powers of St. Paul; E. M. Craig, Chicago, secretary, Chicago Construction Employers' Association. These were the speakers, and A. P. Cameron, president of the Exchange gave an interesting statement of statistics, showing the great extent of business of exchange membership. The program of amusement included act from Empress and Princess theaters, an orchestra and quartet furnished the music. Gov. Hammond made an excellent speech on Builders of the Country, of Minnesota, and Builders of Characters—the men of integrity and breadth of mind. He referred to the narrow-minded, the bigoted, the small and the prejudiced as the mos-

quitoes of humanity. He was greeted with great applause. He left the impression that Minnesota has a strong governor of the proper high character and standards. Pictures were shown on a screen of President Wilson, Governor Hammond, Mayor Powers, the toastmaster, Allan K. Pruden, and officers of the exchange. The souvenir of dinner was a unique miniature box such as is used for packing window glass, on which was written the menu in strange characters. Contents of box were cigars and a nickel pencil holder and cigar lighter. Attached to the box was a little publication entitled "Who's Who in the St. Paul Building Field by Who?" which contained 20 pages of verse dealing with the hobbies and characteristics of members.

## WILL CONTEST IN NATIONAL BOWLING LEAGUE.

The Minneapolis Builders' Exchange bowling league will enter a team for the tournament of the National Bowling League. The standing of the local teams is as follows: Hardware, 36 games, won 27, lost 9, per. 750; Lumber, 36, 26, 10, 722; Glass, 36, 26, 10, 722; Plumbers, 36, 23, 13, 639; Roofers, 36, 21, 15, 583; Millwork, 36, 19, 17, 527; Boiler, 36, 17, 19, 472; Lime, Cement, 36, 15, 21, 416; Brick, 36, 11, 25, 305; Bonds, 36, 11, 25, 305; Building Specialties, 36, 11, 25, 305; General contractors, 36, 9, 27, 250. Recent individual scores: Carroll, 173, Adams, 168, Hellman 167, Myers, 164, Olness, 165, Holker, 164, Brin 163, Mulhooney, 169, Rogers, 163, Martin 168.

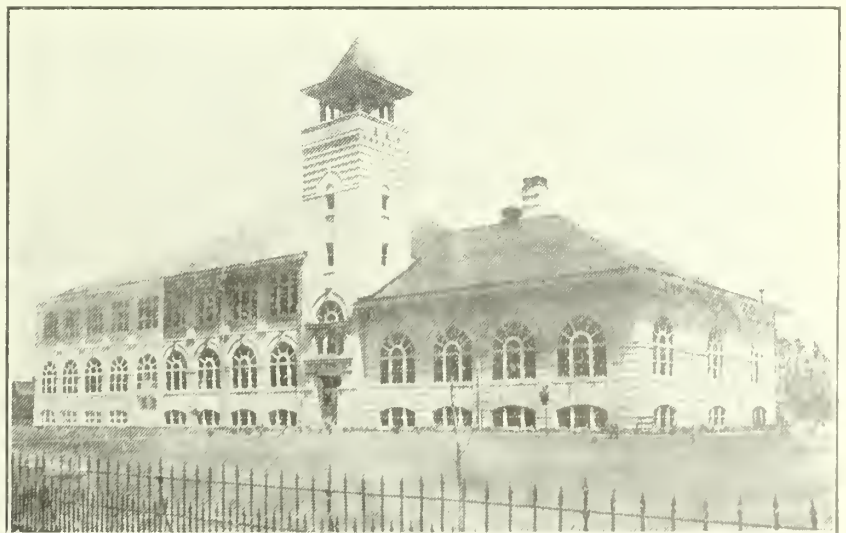
Word comes from the Cuyuna mining district, via Brainerd, Minn., that the mining companies are preparing for an active season. Shafts are being sunk. A big production is promised. The Canadian Cuyuna Ore Co. will build another residence in Woodrow and a hospital.

In a notice to contractors, Sioux Falls, S. D., bricklayers and masons announce a raise in their wages from 70 cents to 75 cents an hour; for stone masons, from 60 to 65 cents. The Bricklayers and Masons' Union of Faribault, Minn., elevated their wages 5 cents an hour. The increase at Sioux Falls is stated to be due to the high cost of living. This h. c. of l. is due, in the opinion of many, to the war in Europe.

Dr. B. L. Newkirk, assistant professor of mathematics and mechanics, delivered his interesting lecture on the gyroscope at Nashwauk and Two Harbors and Tracy, Minn.

Garner, Iowa, reports plans afoot for more improvements in 1915 than in 1914, although that was a good year.

The 15th annual convention of the Wisconsin Clay Manufacturers' Association will be held in Milwaukee Feb. 4th and 5th, 1915, at the St. Charles hotel. The program: Thursday morning, Feb. 4, registration of members, reports of officers and committees, president's address, Jno. Ringle, Wausau; Thursday afternoon—"How a Cost Accounting System will Help the Brick Manufacturer," Prof D. W. Morton, university of Wisconsin, Madison; "My Experience with Brick Kilns and the Kind of Fuel," J. D. Pratt, Menomonie; "Build with Brick," J. E. Randall, Indianapolis; Friday morning, Feb. 5—



GRAND RAPIDS, MINN. HIGH SCHOOL.



"The Need of Drain Tile in Wisconsin," Prof E. R. Jones, Madison; "The Brick and Tile Manufacture and the New Building Code," J. G. Hamilton, Grand Rapids; "The Present Outlook for the Brick and Tile Industries," E. W. Wilson, Mason City, Iowa; Friday afternoon—Reports of committees and election of officers. It is hoped that some time will be available during the convention for visiting several of the Milwaukee manufacturing plants of interest to the members.

Medusa waterproofing patents sustained.—The U. S. court of appeals, 7th circuit, rendered a decision on Jan. 4, 1915, fully affirming the decision of the U. S. district court, northern district of Illinois, rendered Feb. 13, 1914, by which the Newberry patent No. 851247 was declared to be good and valid, and that the McCormick Waterproof Portland Cement Co. infringed said patent. A copy of the decree, in pamphlet form, sent on application to Sandusky Portland Cement Co., Sandusky, Ohio.

Much has been said about the model, modern, low cost, fire-resistant residence that is being built at the Panama-Pacific International Exposition. Work has been delayed, somewhat, by the rainy weather that has prevailed but the outer walls were up January 20—one month before the day set for the official opening of the exposition. Progress photographs will be made. Arrangements are under way for a booth, 25x30 feet, in the Palace of Mines and Metallurgy, where literature will be distributed, telling of the virtues of brick.—Brick and Clay Record.

North Dakota supreme court lien decision. J. L. McCaull and others vs. J. Nichols and others: Evidence examined and held, that plaintiff's agent had the authority to withhold from record the mechanic's lien until the ninety day period had expired, thus allowing the mortgage to become a first lien. The evidence discloses that this is what was done. Under the evidence, it is held, that the plaintiffs are estopped to take advantage of the conduct of their agent whereby they receive material benefit and the intervening bank was materially injured by such conduct, unless plaintiffs are in a position to restore the bank to as favorable a position as it occupied at the beginning of the transaction.

A. H. Wyman and Ernest Harper, have formed a co-partnership as Wyman & Harper at Baker, Mont., for general contracting. Mr. Wyman was for a long period with the Midland Lumber Co.

A meeting is being held at the St. Paul hotel in St. Paul, today, to consider an organization of municipal sewer and water contractors for Minnesota and North and South Dakota. W. C. Fraser, former president of the Minnesota Society of Civil Engineers, and W. C. Danforth, recently returned from conventions of the Wisconsin Municipal Contractors' Association and the Mid-West Improvement Association at Omaha, are present.

W. M. Gibson, who travels for the Waterous Engine Works Co. of St. Paul, will be guest of honor at a dinner by contractors at the St. Paul Commercial club this evening. The committee in charge of the dinner includes W. C. Fraser, C. J. Anderson, J. M. Pitblado and H. P. Burgum, 1415 8th st. SE., who is acting as secretary.

Builders' Exchange Bowling League, St. Paul, score Jan. 25: Bond—won 3, lost 0; Sheet Metal—Won 0, lost 3; Plumbers and Steamfitters—won 2, lost 1; Lumbermen—won 1, lost 2; Contractors—won 1, lost 2; Steel and Iron—won 2, lost 1; Hardware—won 1, lost 2; Cement, Stone, Brick—won 2, lost 1; team high score, three games, Bond—2,640; team high score, one game, Contractors—958; individual high score, three games, J. Thomson—643; individual high score, one game, J. Shiely—258.

A. J. Holm, formerly secretary of the Romely Thresher Manufacturing Co. and secretary of the Stillwater, Minn., board of education, has been chosen as secretary of the Stillwater water commission.

One of the interesting incidents of the Iowa Clay Products Manufacturers' Association meeting at Ames, was a test of the load-bearing strength of hollow tile blocks at the college. One block stood 127,000 pounds; another 123,000. Two 6-inch concrete tubes were tested, one composed of lime stone and the other of burned clay pieces. The former stood 85,000 pounds; the latter 142,400 pounds.

E. H. Cobb, of the Hydranic Pressed Brick Co., is becoming proficient in another line—toastmastering. He was again the toastmaster of the N. W. Clay Association banquet. The good looking ladies' quartette again graced the dinner with pretty music, rendered in attractive style.

S. G. Cool, a Chicago contractor who has been engaged in work for the Chicago & Northwestern Railway Co. at

Manitowoc, Wis., having just completed the new ice house for the company on the river, is to make Manitowoc his permanent headquarters.

#### ARCHITECTS AND ENGINEERS.

Members attending the Montana Municipal institute at Helena included: M. L. Morris, city engineer of Great Falls; A. L. Jaqueth, Kalispell; F. C. Snow, Bozeman; City Engineer A. Berkland, Lewistown; City Engineer L. K. Poole, Townsend; City Engineer Sam Hanely, Havre; Assistant Engineer Sprague of Great Falls; City Engineer J. D. McLeod, Helena; City Engineer C. C. Widener, Bozeman.

Cass Gilbert, architect of the Woolworth building, New York, and the Capitol at St. Paul, is on the list of speakers at the 11th annual convention of the American Concrete Institute, Chicago, Feb. 9-12.

C. A. P. Turner, the Minneapolis consulting engineer who invented the Mushroom system of reinforcing concrete, is one of the speakers on the program of the annual meeting of the American Concrete Institute, Chicago, Feb. 9-12.

Harry G. D. Nutting has been appointed manager of the engineering department of the John E. DeWolf Co., investment bankers, Milwaukee. He was formerly engineer for the Wisconsin railroad commission.

Professor John J. Flather, head of the department of mechanical engineering of the college of engineering of the university of Minnesota is spending a year's leave of absence in Scotland; he has recently moved from Girvan which is on the seashore to Edinburgh; Prof. Flather's address is 20 Greenhill pl.

Architect Chas. Fitzgerald, who had offices for many years at 55 Hathaway building, Milwaukee, died recently at his home, 75 30th st., Milwaukee.

Alex Legaard, E. E. '14, university of Minnesota, has returned from Detroit, Mich., where he has been employed by Chas. L. Pillsbury and Edward P. Burch on the valuation of public utilities of Detroit.

E. F. Cummings, C. E., '13, university of Minnesota, is to teach science and manual training in the high school at Mahanomen, Minn., for the rest of the year.

H. G. Overholt, C. E., '10, university of Minnesota, who was in the city during the holidays, is at present spending a vacation period on the Pacific Coast. He has been employed for a number of years in the designing department of the C. M. & St. P. Ry. in Chicago.

#### A SAFE MANHOLE COVER.

A tight manhole cover which is also safe and quickly opened was tested recently by Minneapolis officials. It was the "D. & D." cover, made by the D. & D. Safety Cover Co., and put on the market by the Wm. E. Dee Co., Stock Exchange building, Chicago. The test in Minneapolis was made Jan. 21, and was pronounced satisfactory. The cover was opened in 30 seconds, St. Paul address, D. & D. Cover Co., 2423 University av.

#### A TABLE-BED ON THE MARKET.

The advent of the table-bed into the building equipment field, is a new disappearing bed to bid for the favor of owners of apartment houses. Unlike the usual disappearing bed, the table-bed works both day and night. It is a library table concealing a bed. The table-bed is so constructed as to close up with the usual equipment of bedding and pillows.

#### BUILDERS' EXCHANGE, MINNEAPOLIS.

The following officers were elected at the annual election held Jan. 5, 1915. M. Schumacher, president; John McDonald, first vice president; Wm. Penn, second vice president; C. F. Splady, treasurer; L. M. Osborne, sergeant-at-arms; directors: N. W. Nelson, Walter Thorpe, Del Wyman; committee on complaints: G. M. Jones, John Hernlund, Arthur Srin, E. E. Leighton, Geo. Cook.

Plans on file: soils building, Madison, Wis., Jan. 18; biology building, Minneapolis, Jan. 21; biology building, Minneapolis, mechanical equipment, Jan. 21; dormitory, Yankton, S. D., Jan. 26; Berg memorial gymnasium, Cooperstown, N. D., Feb. 1; Y. M. C. A. building, Racine, Wis., Feb. 2; east side school, Sioux Falls, S. D., Feb. 12; Catholic church, Detroit, Minn., Feb. 25; post office, Miles City, Mont., Feb. 27; post office, Lawton, Okla., Mar. 6; school, Middle River, Minn., Feb. 15.





# 80TH Chicago Cement Show

Coliseum February 10-17, 1915

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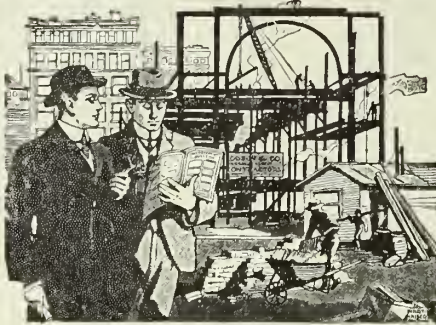
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**RATE:** 15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

**PUBLICATION DAY:** Last forms close 10 a. m. Friday. Copy received up till that hour will be published in The Bulletin and delivered to subscribers the next day. Copy received later cannot be published till issue of the following week.

**MINIMUM CHARGE:** No advertisement published for less than \$2.00 each insertion.

**NIGHT LETTER OR PHONE:** When too late to send copy by mail to reach us by 10 a. m. Friday, forward by night letter or long distance telephone.

**PRINTED SLIPS** containing the ad, are furnished to officials, architects and others interested, for distribution by them, without extra charge.

The Daily Reports of The Improvement Bulletin, published every business day, can be used to advantage when copy cannot reach us in time for publication in the weekly Bulletin before bids are to be opened or when daily publications are necessary to meet legal requirements. Rate is the same, —15c per line each insertion.

## Proposal Index

Bids Close	See Imp. Bulletin Dated
Feb. 1. Sewers, Mitchell, S. D....	Jan. 16
Feb. 1. Gymnasium, Cooperstown, N. D. ....	Jan. 9
Feb. 2. School, Letcher, S. D....	Jan. 16
Feb. 5. Centrifugal pump, Ely, Minn....	Jan. 30
Feb. 8. Judicial Ditch No. 27, Beltrami County, .....	Jan. 16
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Feb. 10. State bridge, Ivanhoe, Minn. ....	Jan. 16
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Feb. 12. School, Sioux Falls, S. D....	Jan. 9
Feb. 18. Govt. Bldg., Lincoln, Neb....	Jan. 9
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Feb. 27. Govt. Bldg., Miles City, Mont. ....	Jan. 9
March 1. Extension street lighting system, Grand Forks .....	Jan. 30

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# CONSTRUCTION & CONTRACT NEWS

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## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.  
Phones: N. W. 3902. T.-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

H. J. Radle, owner and builder, 2311 E. Minnehaha blvd., addition, 1½-story plaster veneer and brick veneer dwl.	3,450
S. H. Barker, 3732 14th av. S., 1½-story frame dwl.; S. H. Barker, builder; address owner, 3749 14th av. S.	3,800
P. H. Phillips, owner and builder, 4732 S. Aldrich av., 2-story plaster veneer dwl.; address owner	4,000
Franklin B. Knoblauch, 1113-14 Harmon place, 1-story brick and steel electric garage; W. F. Doeltz & Sons, builders; address owner, 1717 James av. S.	16,800
N. C. Edridge, 2026-28 Riverside av., 2-story brick stores (2) and flats (4); address owner, 317 Cedar av.	7,000
H. H. Placke, 1906-08 3d av. S., 3-story brick apartment building; Anderson-Nelson Construction Co., builders; address owner, 902 Andrus building	37,000
Anderson-Nelson Construction Co., owners and builders, 1821-23 1st av. S., 3-story brick apartments (19); address owners, 2723 13th av. S.	37,000
H. L. Buss, 4222 Irving av. N., 1-story frame dwl.; address owner, 700 15th av. SE.	1,800
Darvini Vadrnais, 4241 Washburn av. S., 1-story plaster veneer dwl.; Anderson & Carlson, builders; address owner, 4408 Lake Harriet blvd.	2,500
Mrs. Wesley Niell, 511 9th av. S., 1-story brick addition to store; C. H. Anderson, builder; address owner, 1733 Irving av. S.	1,300
Wentworth & Griffith, Inc., 1827 1st av. S., 3-story brick apartments (42); E. J. Graves, builder; address owner, 100 Metropolitan Life building	80,000
J. D. Ekstrum, 3608 S. Colfax av., 1½-story plaster veneer dwl.; address owner, 1001 W. 36th.	2,500
H. G. Darrow, owner and builder, 3935 N. Aldrich av., 1-story frame dwl.; address owner, 1022 Metropolitan Life building	1,200
H. G. Darrow, 3939 N. Aldrich av., 1-story frame dwl.; H. G. Darrow, builder; address owner, 1022 Metropolitan Life building	1,200

Jackson & Stone, architects, Security Bank building, have furnished plans for the large modern residence on Oliver av., in Lake of the Isles district, for Mark Magnuson, Northwestern Elevator Co., frame, 30x30, concrete foundation, hot water heat, 3 baths, 3 laundry traps, white enamel finish throughout, French windows and doors, sleeping porch, screen porch, fireplace, shingle roof; cost about \$10,000; plans ready for figures about Feb. 15.

\*Haley & Johnson, architects, Plymouth building, have furnished plans for a modern dwelling at Lonsdale, Minn., for B. McFadden; 36x20, 2-story, cement blocks and concrete basement, frame, hot water heat; plans out; architect and owner take figures; also plans for a modern dwelling in Bloomington for F. J. Paltezesk, frame, hot water heat, sleeping porch, 26x30; owner lets work.

\*Contract for heating and plumbing on the Commercial garage, 11th and Harmon, for T. B. Knoblauch, Security Bank building, was awarded to C. J. Maurud Co., 313 Washington av. N.; electrical work, Sterling Electric Co.; copper, tinwork, roofing, fireproofing, doors, cornice, to Northwestern Roofing & Cornice Works, 1111 S. 5th. C. B. Stravs, architect, Security Bank building.

Bids on the Biology building, university, are regarded as too high by board of control; may be scaled down. Minneapolis Electrical Equipment Co. low, at \$17,337; M. J. O'Neil, St. Paul, low on heat and plumbing, at \$30,964; Fleischer-Rose Construction Co. low, general, at \$140,613. C. H. Johnston, architect, St. Paul.

The official call for bids on the general contract of the high school at Excelsior, Minn., is out this week; bids on the mechanical equipment, about 30 days later; C. Leroy Kimport and C. T. McElroy, architects, Essex building, 10th and Nicollet; W. M. McDonald, secretary, school board, Excelsior. Official call in The Improvement Bulletin this issue.

\*Sund & Dunham, architects, Andrus building, expect to have plans for the tuberculosis sanitarium at Lake Julia, near Bemidji, Minn., ready about March 1; for Beltrami, Hubbard and Koochiching counties; fireproof, 1-story, brick, \$25,000; all Minnesota material as far as possible.

The Vitrolite Co. of Minneapolis was awarded the contract for wainscoting and shower partitions of four baths with showers in the suburban residence of Franklin Crosby at

Lake Minnetonka; Pike & Cook, general contractors; Hewitt & Brown, architects, 715 4th av. S.

H. H. Placke, 915 Andrus building, has awarded the contract to the Anderson-Nelson Construction Co. for building the 3-story brick apartment building at 1906 3d av. S., 45x100, 19-apartments, concrete foundation, steam heat, gas ranges, laundry, \$37,000; no architect.

\*Twin City Tile & Marble Co., 312 7th st. S., was awarded the largest marble and tile contract of the new year this week, in the Minneapolis Athletic Club building; total cost of work about \$30,000. Bertrand & Chamberlin, architects; James Leck, general contractor.

A private hospital is planned by the Lakeview Sanatorium Co., recently incorporated for \$50,000, to build on the shore of Stubbs Bay, north shore Lake Minnetonka; Dwight J. Carpenter, formerly with Olson Hospital, 1828 Central av., and others incorporators.

Thomas Voegell, retiring president of the park board, recommended that the Fair Oaks residence of Mrs. W. L. Washburn, Sr., be converted into headquarters and home for numerous women's clubs of city. P. C. Deming, new president, park board.

Victor De Brauwere, architect, 826 Plymouth, has furnished plans for a store building on 8th st. between Nicollet and Marquette, and figures are in; brick, 1-story, tar and gravel roof; Douglas A. Fiske, owner, N. Y. Life; 3-story.

C. E. Bell, architect, Security Bank building has prepared plans for an addition to the warehouse of the Carr-Cullen Lumber Co.; 100x100, basement and 3-story, brick, mill construction, flat roof; owner will build.

Anderson-Nelson Construction Co., 2723 13th av. S., have taken out permit for a 3-story brick apartment building, at 1820 1st av. S., 45x100, 19-apartments, steam heat, brick foundation, modern; owner builds.

Plans have been furnished by Glenn L. Saxton, architect, Plymouth building, for a frame bungalow at Scotland, S. D., for the Goodridge-Call Lumber Co., 26x35, birch trim, modern, hot water heat, \$3,200.

A plaster veneer dwelling is being built at 4241 Washburn av. S., by D. Vadnais, 4408 Lake Harriet blvd., 36x32, 1-story, concrete foundation, hot water heat, modern, \$2,500; contract to Anderson & Carlson.

Plans are being prepared by W. S. Hunt, architect, 611 N. W. building, for a 4-flat, Lyndale and 26th, owner's name withheld, 2-story and basement, brick, modern, hot water heat, \$8,000; architect will take bids.

P. H. Philips is building a modern dwelling at 4732 S. Aldrich, 24x36, 2-story plaster veneer, sleeping porch, screened porch, hot water heat, tile bath, laundry tray, fireplace, \$4,000; owner builds.

Permit issued for the business building at 2026 Riverside for N. C. Edridge, 317 Cedar av., 2-story, brick, 4 flats, 2 stores, \$7,000; plans by Haley & Johnson, architects, Plymouth building.

Purcell & Elmslie, architect, 422 Auditorium, are preparing plans for a modern bungalow in River Forest, Ill., for Henry Einfeldt, 120 Marion st., Oak Park, Ill.; frame and stucco.

The Beck Electrical Construction Co. has just closed a contract for the complete electrical equipment of fixtures in the \$175,000 school building at Ely, Minn.

S. H. Barker, 3749 14th av. S., is building a frame dwelling at 3732 1st av. S., 24x26, 1½-story, hot water heat, modern, \$2,800; owner builds.

The contract calls for 188 200 W. nitrogen general electric fixtures; 57 Brascolite fixtures and a number of miscellaneous styles.

Extensive improvements are planned for the Luce Electric Short Line near 3d av. N. and Holden st. for next spring, provided the city closes certain streets; terminals and yards.

Minneapolis Industries association will lay out a garden city for workmen near new industrial district in northeast Minneapolis; Douglas A. Fiske, president, 525 N. Y. Life building.

\*Wentworth & Griffith, incorporated, will build a flat of forty-two apartments at 1827 1st av.; cost, \$80,000; permit issued.

\*Fire destroyed the bungalow of E. B. Cooper, near Vine Hill, crossing Minneapolis & St. Louis railroad; loss, \$4,000.

\*Site for new school at 15th av. and 46th st. S. will be bought by the school board.

\*A fire station is wanted at 27th av. NE. and Johnson.



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

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BONDING DEPARTMENT

ASSETS \$3,514,125.50

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PHOENIX BUILDING

THE OCEAN ACCIDENT &  
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Orders, large or small, filled promptly.  
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#### FOR SALE, ELECTRIC GENERATOR AND ENGINE.

Moorhead, Minn.

The City of Moorhead, Minnesota, has at its electric plant a complete electric generator of 150 kilowatt capacity and a good Corliss engine. The unit is too small and is being superseded by a 500 kilowatt unit.

Electric generator is a two-phase, 60 cycle 2,200 volt, belted Westinghouse unit, modern in every respect and is complete with marble switchboard panel and wiring.

Engine is a Corliss unit with a 16 by 42-inch cylinder, and is rated 250 H. P. at 120 revolutions, on 125 pound steam pressure. Engine has a 12-foot flywheel and is complete with a 3-ply 22-inch belt, belt tightener, and a good jet condenser.

The complete unit may be inspected, at any convenient hour. The outfit will be sold with or without the engine, to the highest bidder. The generator is in exceptionally good condition, and cost the city \$3,639.90 in 1906.

Address the City Clerk, Moorhead, Minnesota.

#### LIBRARY.

Garner, Iowa.

Sealed proposals for the general construction (plumbing and heating separately) will be received by the trustees of the Garner Public Library at Garner at 3:00 P. M., February 11, 1915.

All bids must be in strict accordance with plans and specifications as prepared by J. H. Jeffers & Co., Mason City, Iowa, which may be seen on and after January 27, 1915, either at the Architects' office or at the Library at Garner, Iowa. Plans can be obtained from the architects or from Miss Jennie Elder, Garner, Iowa, by a deposit of Ten Dollars. Certified check must accompany any bids in the amount of 5 per cent of the bid. All checks of unsuccessful bidders will be returned to them within five days after the award of the contract. The party or parties to whom work is awarded will be required to give a surety bond in amount of one-half the contract price, as a guarantee of the faithful performance of the work. The right is reserved to reject any or all bids.

Dated January 18, 1915.

(Signed) JENNIE ELDER,

Secretary Carnegie Library Building Committee, Garner, Iowa.

#### BIDS FOR SCHOOL BUILDING.

Sioux Falls, S. D.

Notice is hereby given that sealed proposals for the complete construction of a school building at Sioux Falls, South Dakota, to include all labor and material, will be received by the Board of Education of the Independent School District of the City of Sioux Falls, at its office in the High School Building in said city, until four o'clock in the afternoon of the 12th day of February, 1915. All bids must be in strict accordance with the plans and specifications for said building prepared by Patton, Holmes & Flinn, architects, which may be seen at the following places, to-wit: the office of the said Board of Education in the city of Sioux Falls, South Dakota; the office of the said architects at Number 8, South Dearborn Street, Chicago; the Builders' Exchange, Minneapolis, and F. W. Dodge Company, Minneapolis.

A certified check for one thousand dollars (\$1,000.00) must accompany each bid. All checks of unsuccessful bidders

will be returned to them within three days after the awarding of the contract. The successful bidder will be required to enter into a contract satisfactory to the said Board of Education and to give a bond satisfactory to said Board in the full amount of the contract price, which bond shall in all respects comply with the laws of the state of South Dakota.

The right is reserved to reject any or all bids.

Board of Education of the Independent School District of the City of Sioux Falls, South Dakota.

By W. B. FULLER,  
Clerk.

#### DORMITORY BUILDING.

Red Wing, Minn.

Sealed proposals will be received by the State Board of Control in their office in the State Capitol Building, at St. Paul, Minnesota, until 2:00 P. M., Tuesday, February 9th, 1915, for the altering the east wing of the Boys' Dormitory Building, into a hospital, State Training School, at Red Wing, Minnesota, including the general contract work, heating and ventilating, plumbing and electrical work, in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to Minnesota State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the St. Paul and Minneapolis Builders' Exchanges, office of the State Board of Control and at the office of the superintendent of the Training School, Red Wing, Minn.

Extra copies of the plans and specifications may be obtained on application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

(Continued on page 16.)



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ST. PAUL, MINN.



## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

## Building Permits

Paul E. W. Nylin, 114 Jessie, 1½-story frame dwl., Maryland near Weide; Joel Peterson, builder.....	3,200
Northern Insulating Co., 1400 University, builders, 2-story steel, brick and concrete dry kiln and factory, Wabasha near Hampden .....	25,000
Noyes Bros. & Cutler, alterations and repairs to 5-story brick store, 220 to 226 5th st.; J. M. Carlson, builder....	4,000
Benz Realty Co., repairs to 2-story brick store, 7th near Rosabel; J. M. Carlson, builder.....	10,000
Peter Kammerer, 835 Tatum, builder, 2-story frame dwl., Minnehaha near Wheeler .....	2,850
L. H. Thomas, 1728 Hague, 2-story frame dwl., Hague near Dunlap; F. O. Peterson, builder.....	6,000
Carl A. Bredahl, 609 Hawthorne, builder, 1½-story frame dwl., Hamline near Palace.....	1,700
Aalbu S. Lee, 380 Ashland, builder, 2-story frame dwl., Ashland near Hamline.....	3,500
N. A. Linde, 323 E. Lawson, 1½-story frame dwl., Como-Phalen near Mendota; Grove M. Merrick, builder.....	3,000
Emanuel Lutheran Church, 1-story frame Church, Aurora near St. Albans; O. H. Dace, trustee, builder.....	5,000
M. E. Montgomery, 1734 E. 7th, 1-story frame dwl., 7th near Flandreau; Geo. W. Bradet, builder.....	1,500
Aug. Geitzman, 1½-story frame dwl., Thomas near Grotto and Avon; C. A. Kiengel, builder.....	2,400
D. D. Smith, agent, alterations and repairs to 2-story frame dwl., 655 Dayton av.; Chas. A. Fawble, builder.....	1,200
Bennett Nepstad, 242 W. Rose, 1½-story frame dwl., Marion near Rose; Frank Lindquist, builder.....	2,000

Plans in preparation (out Saturday, Jan. 30.) pie bakery, for L. L. Freeberg, 6th and Exchange sts., St. Paul, Minn.; approximate cost \$5,000; 25x77, to be built in early spring on University near Lexington av.; one Fisk rotary pie oven 3,500 pie capacity daily, electric trimmer and crimper, full plumbing, steam heat, Columbia boiler and Simplex radiation, patent store front, concrete foundation, brick and wood; Carey roofing, auto garage to rear of structure; W. D. McLeith, architect, Wabasha and Summit.

Plans out for figures, commission row No. 5; owner, Christ. Hansen, Minnehaha flats, St. Paul, Minn.; architect taking figures on wrecking old building on site, excavation, general contract, electric wiring, painting, roofing, insulation, refrigeration machine, complete with brine tank cooler, fittings, piping, etc., approximately cost \$200,000; to be erected at once on N. W. corner 10th and Jackson sts., St. Paul; W. D. McLeith, architect, Summit and Wabasha.

E. J. Donahue, architect, Gilfillan block, has prepared plans for a store and flat building, Temperance & Globe sts., for W. J. Murphy, of O'Halloran & Murphy, undertakers; brick, 2-story, no heat, stone foundation, concrete footings, cement floor, plumbing, wiring, plate glass fronts, tar and gravel roof, steel beams, common plaster, vitrified wall coping, 22x75, two apartment and 2-story, fir and birch trim, maple floors, Danville brick; owner takes figures.

A. F. Gauger, architect, Scandinavian American Bank building, awarded contract for church at Young America to Madson Bros., Plymouth building, Minneapolis, at \$20,404 with shingle roof, or \$21,043, slate roof; other bids included; C. M. Steinberg, \$24,693; Standard Construction Co., \$21,612; Beckwall & Widell, \$25,540; Johnson Construction Co., \$21,363; L. W. Baumeister, St. Paul, \$23,800; Ed. Hirt, St. Cloud, \$25,253; J. E. Wierschke, \$24,141.

Silas Jacobson, architect, Capital Bank building, is preparing plans for a brick hotel building at Maple Lake, Minn., for Frank Hoppe; 2-story, finished basement, 116x46, hot water heat, plumbing, wiring, lead tile floors in office, dining room, parlor, metal ceilings, same rooms, billiard room and barber shop in basement with metal ceiling and tile floors, flat roof; plans out next week; owner and architect will take bids.

W. D. McLeith, architect, Summit and Wabasha, reports contracts awarded. Commission row No. 2; insulation to Union Fibre Co., Winona, Minn.; refrigeration machinery to York Manufacturing Co., York, Pa.; elevators, 6 electric machines, Lee & Hoff Manufacturing Co., St. Paul, Minn.; iron and steel work, to St. Paul Foundry; bids wanted on electric wiring, tar and gravel roofing.

Buechner & Orth, architect, Shubert building, expect to have plans ready for the general contract on the extension of the St. Paul Arcade, 11th st., about Feb. 15, steel and terra cotta; specifications to be ready soon; building may be 3 or 6 stories.

W. F. Keefe, architect, American National Bank building, will have plans ready soon for the Easton, Minn., church for Our Lady of Lourdes congregation; Rev. H. Hennekes, pastor; brick and stone, 60x130, seats 900; \$30,000.

\*City Architect Hausler has completed sketches for the Ames and Daltier schools, \$25,000 and \$22,000. Plans for the Randolph Heights, at \$42,000, Drew district, at \$32,000, and McClellan, \$45,000, are to be made later.

The Cast Stone Co. has been incorporated for \$10,000 by R. M. Neeley, president, R. C. Wright, vice president and E. Y. Arnold, secretary and treasurer; office 4th st. opposite Despatch building.

Bids are being taken on factory, Midway, for Wm. Leithhauser, 845 Fairmont; 1-story, 40x80, press and common brick, by owner; H. E. Erickson, architect, American National Bank building.

Bids received by the city until 10 a. m., Feb. 8, for structural steel and iron required in new water works building, 25 E. 5th; bond for 20 per cent; check for 10 per cent.

A church and school to cost \$115,000 is planned by the church of St. Columbia for the square of Blair, Lafond, Syndicate and Hamline; Rev. E. F. Casey, 393 E. 9th st.

Figures are being taken on the O'Brien Mercantile Co., building, Brainerd, Minn., remodeling, 1-story; plans by Alban & Lockhart, architects, Endicott building.

Permit was issued for the new church, Aurora between Dale and St. Albans, for Emanuel Lutheran congregation, 34x60, frame, \$5,000.

Permit issued for the dry kiln factory, for the Northern Insulating Co., 1400 University, 2-story, steel and brick, 100x200, \$25,000.

Permit issued for the Emmanuel Lutheran church, 1-story, frame, 34x60, Aurora and St. Albans; O. H. Dace, trustee, 662 Rondo.

With \$15,000 bonds authorized by the legislature Ramsey county will build a juvenile home for children brought into court.

Bids on the Biology building, state university, were regarded as too high. M. J. O'Neil was low for heating and plumbing.

The city council accepted the plans for the new Union railway station with a few minor changes.

City Architect Hausler will have plans ready soon for additions to the Ames and Goltier schools.

Fire destroyed the dwelling of H. Famer, 36 Eva st., loss partly covered by \$1,000 insurance.

The Benz Realty Co. will remodel the building at 7th and Rosabel after fire; cost \$10,000.

Residence of H. N. Dunn, 2011 Goodrich av., was destroyed; loss \$4,000.

\*City will buy site for Randolph Heights school at once.

## FARGO, N. D.

Fargo will do a large piece of paving during 1915, the work to begin about April 15th. Broadway will be paved between N. P. and G. N. tracks, and bids will be received upon brick, bitulithic and creosote block paving for 16,000 yards. First av. N., east of 5th st. will be paved with one of four kinds of paving, to be selected by the property owners: brick, creosote block, bitulithic and Portland cement concrete; there will be about 3,000 yards in this contract; there will be about 35,000 yards of new paving laying in the 1st, 2d and 3d paving districts and bids will be received on four classes of paving for this contract. In regard to an incinerator or municipal garbage destructor, no action has been taken as this is now undergoing the period of investigation and discussion. Prof. E. F. Ladd of the agricultural college is chairman of a committee appointed to investigate and report to the Commercial club as to the advisability of erecting some form of municipal destructor or incinerator; F. L. Anders is city engineer.

## SUPERIOR, WIS.

Plans let on residence, 2-story and basement, 30x35, \$7,000. Ogden av., Architect F. E. Johnson, 407 Truax building, for Geo. Leamon, 1016 Ogden av.; frame and stucco, general let to John Stromberg, 1322 Weeks av., hot water heating and plumbing let to Ryan & Carlson, 1116 Ogden av.; architect desires bids on electric work.

Contracts on residence, 2-story and basement, 28x30, \$4,000. Architect F. E. Johnson, 407 Truax building, for Louis Perrin, 1312 W. 12th; general Twin Ports Building Co., care architect; plastering let to T. Kelly, 6221 John av.; general contractor desires bids on painting and electric work.

A residence, 2-story and basement, 21x30, \$4,000, 20th and



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More than 50,000 personal  
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Security Bank Bldg.,

MINNEAPOLIS

### CHURCH.

Detroit, Minn.

Until 5 p. m., Feb. 25, bids will be received by Rev. Chas. Cannon, Detroit, Minn., for erection of a Catholic Church, (brick edifice) at Detroit, Minn.

Plans and specifications at Builders' Exchanges, St. Paul and Minneapolis, and with Father Charles Cannon, pastor, Detroit, Minn.

**PROPOSALS FOR FRAME HOSPITAL BUILDING.** Department of the Interior, Office of Indian Affairs, Washington, D. C., January 13, 1915. Sealed proposals plainly marked on the outside of the sealed envelope "Proposals for Frame Hospital, Red Lake Agency, Minnesota," and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until 2 o'clock P. M., Feb. 15, 1915, for furnishing materials and labor for the construc-

tion of a frame hospital at the Red Lake Agency, Minnesota, in strict accordance with the plans, specifications and instructions to bidders, which may be examined at the office of the paper in which this advertisement appears, the U. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., and Omaha, Nebr., the Builders' Exchange, St. Paul, Minn., and at the Agency. For further information apply to the Superintendent of the Red Lake Agency, Minnesota. Cato Sel: Commissioner.

### NOTICE FOR BIDS.

**For the Construction of Judicial Ditch No. 27, Beltrami County, Minnesota.**

Notice is hereby given that the undersigned auditor of Beltrami County, Minnesota, will on Monday, February 8th, 1915, at 10 a. m., at his office in the court house in the city of Bemidji, Minnesota, receive sealed bids for the

## PROPOSALS

construction of Judicial Ditch No. 27, located in Townships 158, R. 30-159-29-30-31-160-29-30 one end located 8 miles south-east of Baudette, Beltrami County, according to the plans and specifications of the engineer now on file in the office of the clerk of court. Said ditch as surveyed by the engineer is about 30.15 miles long, and the estimated number of yards of dirt to be excavated is about 231,182 cubic yards; total estimated cost of the construction of said ditch being about \$52,214, including highway. Maximum cut 9.8 feet, average cut 5.0 feet. Bids will be received for the work as one job or for one or more sections of said work. Each bid must be accompanied by a certified check on a national bank or trust company for not less than ten (10) per cent of the bid, which shall be forfeited to said county if the successful bidder fails to enter into contract and execute a bond as provided by law. The successful bidder will be required to furnish a good and sufficient bond in the amount of the contract, conditioned upon the faithful performance of said contract.

Bidders are requested to specify the time needed to complete the work.

No bid will be entertained that exceeds by 30 per cent the estimate of the engineer.

The right to reject any and all bids is reserved. The date for receiving said bids may be adjourned from time to time until the work shall have been all taken.

J. L. GEORGE,  
Auditor of Beltrami Co., Minn.  
E. J. BOURGEOIS,  
Engineer.

(Continued on page 18.)

## Measure Value by Result

Any kind of machinery is simply a MEANS for using power and human work to the GREATEST ADVANTAGE. These are achievements of the KOEHRING MIXERS. They MAKE THE WORK OF WORKMEN COUNT MOST

—they get the greatest value out of the time and power used. They PRODUCE BETTER CONCRETE AT LESS COST. They put more profit into every yard of concrete mixed. They take the guesswork away from contracts. They make each dollar invested in them COST LESS TO MAINTAIN, and therefore make each dollar EARN THE HIGHEST RATE OF INTEREST.

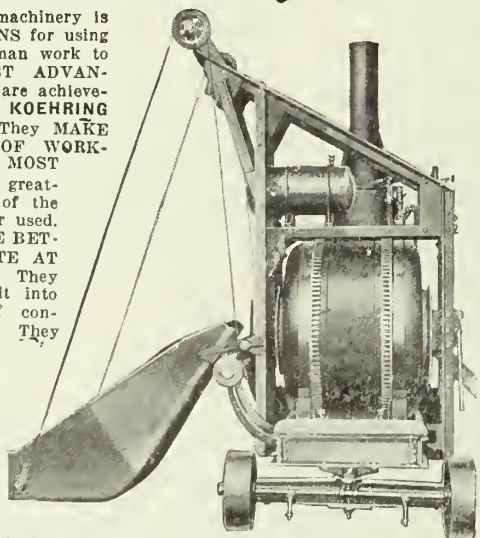
To do a thing well is desirable; to do it better is more desirable —and to do it BEST is MOST DESIRABLE. MIXING THE BEST, and STANDING UP UNDER THE WORK are two specialties of the Koehring.

And just because it is the Mixer that has KEPT PACE WITH THE GREATEST MECHANICAL PROGRESS, the Koehring is the kind that is sought and bought. It does its talking when it is in USE—and what is a safer standard for judging anything than USE?

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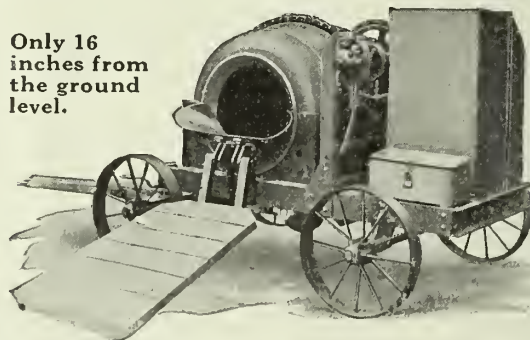
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MILWAUKEE, WIS.

FRANK J. ROSE, Agent

208 Corn Exchange Bldg., Minneapolis, Minn.



Ogden av., architect F. E. Johnson, is being built by the Twin Ports Building Co., care architect, frame and stucco; carpenter to Ashbey & Landquist, 220 Division st.; general contractor desires bids on painting and electric work.

F. E. Johnson, architect, has let carpenter contract on residence, 2-story and basement, 24x30, \$4,000, 29th and Ogden av., for Twin Ports Building Co., care architect, to Chas. Malmberg, 1128 Weeks av.; plastering to T. Kelly, 6221 John av.; painting and electric not let.

Contract on apartment building, (4 apartments), 2-story and basement, 50x50, \$6,000, plans by E. S. Barber, Hammond block, for Berton Box, care architect; day work; frame and stucco, plaster let to E. O. Northrop, 1922 Wisconsin.

## MILWAUKEE, WIS.

Office: Hathaway Building: Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

A. E. Swager, architect, 610 Majestic building, has the following work in hand: two residences, brick veneer and stucco, 32x40 and 32x32, on Stowell av., near Garden blvd., costing \$10,000 and \$7,000, respectively; owners' names withheld; six-family apartment house, 45x81, brick, 3-story and basement, on Stowell av., near Park pl., costing \$25,000; owner's name withheld.

R. E. Oberst, 353 National av. is taking figures after Jan. 28 for remodeling the residence of G. G. Glueck, 21st av., near Grant st.; also for the construction of a store and flat building and private garage for J. G. Hochherz, at 1054 Lincoln av., costing \$7,500. The same architect is planning a \$6,000 residence to be erected in Portage, Wis.; owner's name withheld.

A. D. Koch, architect, Wells building, awarded following contract on \$25,000 business block for Oxford Realty Co., on Jefferson st., near Oneida st.; carpenter, J. J. Quinn; heating, Dearsley Bros.; electrical, A. M. Kailing Electric Co.; plumbing contract will be awarded early next week.

Martin Tuligren & Sons, architects, 133 2d st., will be ready about Feb. 20, for bids on a \$75,000 apartment building of solid brick and concrete for Marggraff Bros. at Prospect av. and Lafayette pl. It will contain 18 apartments and will be 3-story and basement, with steam heat.

Thos. S. Watson & Co., engineers, 1412 Majestic building, are making plans for remodeling the power plant of the Rockwell Manufacturing Co., 572 Park st., interior finish, flooring, etc.; new power equipment, boilers, motors and generator, will be required at once.

The department of public works awarded the contract for furnishing 2,000 tons of soft coal for the Menomonie special sewerage pumping station, Milwaukee, to the Milwaukee Western Fuel Co., Milwaukee, at \$3.70 per ton for Pocahontas testing 14,400 B. T. U.

The Lueck Manufacturing Co., 600 Enterprise building, has been awarded contracts for installing ice machine and refrigerating plants in the Hotel Maryland, Milwaukee, and the new residences of Wm. Kootz and A. R. Munkwitz, both on Lake Drive, Milwaukee.

Geo. Ehlers, architect, 721 3d st., has awarded the carpenter contract on a 7-apartment building for E. O. Klann, Stowell av., near Webster pl., to Otto Bierman & Son, and the mason contract to R. Reisinger; a Challenge vacuum plant will be installed.

Hope English Lutheran congregation, 35th and Cherry sts., is contemplating the erection of a \$35,000 edifice, to be built in units. Plans have not yet been prepared; C. Schaefer is chairman, building committee.

John Roth, architect, is preparing plans for a frame duplex, 26x54, to be built on Edgewood av., E. Milwaukee; owner's name withheld; estimated cost, \$5,500; bids will be taken about Feb. 15.

The Geo. J. Stehling & Son Co., machine shop, is having plans made by its own draughting department for remodeling, rebuilding and enlarging its shops at 549 10th st. at a cost of \$15,000.

The Badger Architects, 629 Walnut st., are ready for bids on a frame duplex for Max Gorenstein at Frederick av. and Folsom pl.; frame and stucco, 2-story, 26x54; estimated cost \$5,500.

C. W. Valentine, architect, 428 Jefferson st., is preparing plans for a \$5,000 residence for Michael Rolfe in E. Milwaukee; frame and rough cast plaster, 36x34; hot water heat.

R. E. Oberst, architect, 353 National av., is nearly ready for bids on a \$6,000 frame duplex for J. G. Hochherz, at 1054 Lincoln av.; solid brick, 2-story and basement, 27x60.

H. J. Krabbe, 706 Milwaukee st., has the contract for the complete erection of a 4-family flat building at 716 Milwaukee st., to be 2-story and basement, 36x40.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

\*Building Permits—E. Wright, frame dwelling on the south side of Chestnut st., between Michigan and Winnipeg av., \$2,000; H. A. Hanson, frame dwelling, on north side of W. 12th st., between E. Dimond and W. Dimond av., \$2,000; Georgina P. Evens, frame dwelling on the east side of 1st st., between 28th and 29th av. E., \$3,500; Axel Johnson, frame dwelling on the west side of 12th av. E. between 10th and 11th sts., \$2,000; Nels Backstrom, frame dwelling on the east side of 23d av. E., between 6th and 7th sts., \$2,500; John Carson, frame dwelling on the south side of Leicester av., Kenilworth, \$4,000; Kelley Hardware Co., remodeling second floor of building on W. Superior st., between 1st and 2d av., \$2,500.

\*Holstead & Sullivan, architects, Palladio building, have completed plans for the parochial school, of the Lady of our Lourdes church at Virginia, and bids are to be opened February 10.

\*J. M. Carson, architect, 210 W. 1st st., will have plans out tomorrow for another residence at Kenilworth Park, to cost about \$4,500; 2-story, stone foundation.

\*Plans for the Lincoln school, F. G. German, Exchange building, architect, will be submitted to the school board the latter part of next week.

\*E. F. Broomhall, architect, Alworth building, is preparing plans for a school at Fertile, Minn., to cost about \$50,000; plans to be out about March 1.

## SIOUX CITY, IOWA

Building plans for the coming spring in Sioux City are assuming larger proportions with the increase of business that is apparent here. W. S. Gilman, owner of the Trimble block, destroyed by fire on January 15, has announced that he will build a 4-story brick block on the site as soon as the old walls can be wrecked and work be commenced. The Consumers' Ice Co. will erect a \$60,000 block for a warehouse and offices as soon as spring opens.

Residents of Morningside suburb are securing signers to petitions that will call for paving practically fourteen blocks of streets in that section of the city. Enough signers already have been secured to make the project a success.

Woodbury county has set aside \$3,000 for grading work, to be done on the Leeds road. Considerable work also is planned in cutting down hills in the city and in tearing up and replacing several blocks of paving.

The Woodbury county board of supervisors has awarded the contract for bridge piling to the Nebraska Lumber and Supply company of Omaha, but has rejected all bids for bridge lumber.

The Colonial theater will have a new building in the spring, which is to cost \$30,000. The county will erect a new tubercular hospital, at a cost of \$12,000.

## OMAHA, NEB.

Chas. Metz has purchased a site for \$25,000 at 37th and Dewey, for a modern residence and will start work as soon as possible; plans being prepared by Geo. Prinz, architect.

A project is being promoted for a large theater between Board of Trade and Patterson buildings, negotiations with Geo. W. Smith, owner; cost about \$250,000.

New church buildings will be built in the spring for McCabe Methodists, First Presbyterian, St. Barnabas, Episcopal, Second Christian Scientists and Unitarian.

J. W. Elwood has secured plans from H. D. Frankfort, for a \$35,000 apartment building, 28th and Dewey; disappearing beds, telephones, letter boxes.

Contract awarded to J. C. Mardis Co., for the Phelan & Shirley building, 24th and Farnam; cost \$30,000; John McDonald, architect.

Sale of Schlitz corner, 16th and Harney, to First National Bank, will be followed by construction of a large building, later on.

Preparations under way for the 4-story building, 16th and Farnham, for the Rose Realty Co., by C. D. Armstrong.

A \$25,000 addition to the Swedish Mission hospital will be discussed at the annual meeting.

Independent Realty Co. will build at 302-312 N. 16th; 66x132, 4-story, stores and hotel.

A theater and store are being completed at 16th and Binney, for W. B. McFarland, \$25,000.



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

### SECOND HAND ROLLER WANTED.

Wanted: One 5-ton Tandem Roller. Must be in good condition. Quote lowest cash price. Box 11, Improvement Bulletin.

### Free Help Wanted Advertisements

An all-around experienced draftsman, for the coming season, steady work, begin soon. State experience, give refer-

ences, and for whom employed, from beginning, with wages received, and expected, with samples of work, and age, married, etc.—full particulars.

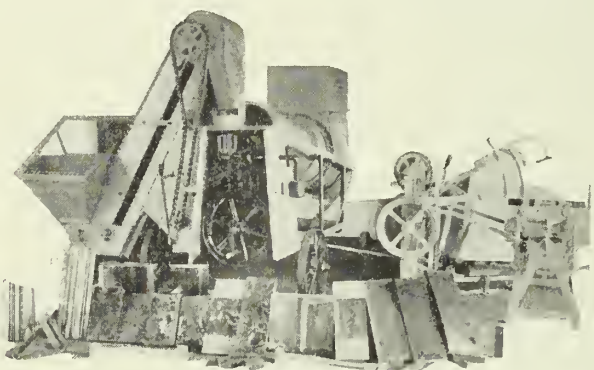
Address Improvement Bulletin,  
For Advertiser No. 17,  
Minneapolis, Minn.

WANTED—Several young men who desire to learn the lumber business, having a high school education, some experience in contracting, making plans and blue

prints. Give age, experience and references. Box 200, Improvement Bulletin.

Situation wanted by a competent draftsman, experienced in shop work as well as architectural work. Call Drexel 1732.

Wanted—Young man with building material experience preferred, to call on Northwestern architects and contractors regarding mortar material. BOX 50.



Complete Unit Outfit, including mixer, automatic tamper, and concrete block machine (capacity 25 10-inch blocks per hour) with full set attachments.

## Bragstad Batch or Continuous Mixer

There is enough money making quality in the BRAGSTAD CONCRETE MIXER to be of real interest to you. This Mixer was made with the profit idea always in mind. The concrete products manufacturer can start his business with one BRAGSTAD MIXER and can then keep on adding the other Bragstad machines as his business grows, until he has a line of machinery that works continuously as a unit—a system that saves rehandling of materials, labor and many steps. Our line includes:

Bragstad Block Machine  
Bragstad Power Tamper  
Bragstad Continuous Batch Mixer

This line will bear the most careful investigation. The value is there and letters written us by Northwestern contractors prove this. We have printed these letters and facts and figures in our Catalog. Ask for it. It tells the whole story. Write direct to

**Bragstad Concrete Machinery Co., Canton, S. D.**

### About Calls for Bids

The object of advertising for bids on township, municipal, county and other work is to be sure that the work will be done at the lowest price consistent with good quality.

Improvement Bulletin is the only construction news Weekly published in the Northwest, and prints so much more advance construction news than any other paper in the Northwest that it is carefully read by the very men from whom you want bids. The Bulletin is, therefore, the right paper for you to use.

The charge is small, only 15 cents a line each insertion.

## Whitman's Contractors Equipment

FRICITION HOIST--FOUR SIZES  
Sultan Hoists, Trench Pumps, Centifugal Pumps,  
Saw Tables, Portable Sultan,  
Engines for Stone Crushers

Sold by **ELLIS WOOLMAN** 117 27th Avenue S. E.  
Minneapolis, - Minn.

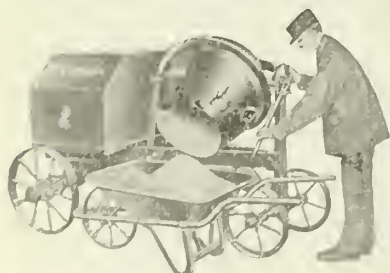
## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE

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ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS

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Ask us why

**CHARLES HOUSTON**  
District Manager

THE  
**Cement Tile Machinery Co.**

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Minneapolis, Minn.  
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FACTORY: WATERLOO, IA.

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AND

## Road Grading Machines

We manufacture and sell direct to you, Galion Imperial Rock Crushers, Elevators, Screens, Bins, Gravel Screening Plants, Eclipse Portable Stone Unloaders, Steam and Gas Road Rollers and Tractors, Road Drags, Wheel, Drag, and Fresno Scrapers, Galion Rooter Plows, Dump Wagons, Traction Hauling Cars, Street Sprinklers and Flushing Machines.

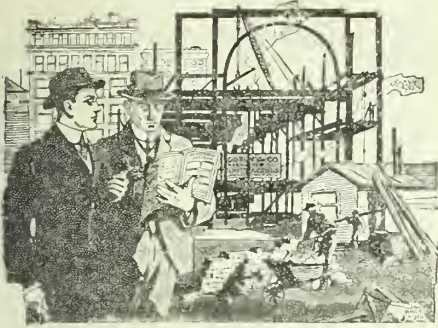
**Galion Iron Works & Mfg. Co.**

606 Metropolitan Life Bldg.,

GALION, OHIO

Minneapolis, Minn.





## Architect Prominent Specialist Self Creator

of famous buildings in Europe  
wants a position in first-class  
office or partnership offer.

Box 26, Improvement Bulletin  
Minneapolis, Minnesota

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Rates: Three cents per word for any ad. Send cash with order. When replies are to be addressed "Box No. —" in our care, add ten cents postage for forwarding replies. Ads received not later than Thursday will be published Saturday. No advertisement run for less than fifty cents.

These "Little ads" bring results. Try them. If you have anything to sell or exchange in machinery or building material; if you want work for your teams or machinery; if you want to buy equipment of any kind, an ad here will place your proposition before most of the contractors and building material men of the Northwest.

### REAL ESTATE EDUCATOR.

All about real estate. What you need to know, what you ought to know, what you want to know about it, placed at your fingers' ends. How to become a notary public or commissioner of deeds. 256 pages. Cloth, \$1.00.

THE IMPROVEMENT BULLETIN,  
Minneapolis, Minn.

### HOTEL ACCOMMODATION FOR SALE.

\$150.00 worth of room accommodation at the best hotel in Minneapolis for sale at reasonable discount. Can be used any time after Dec. 6, 1914. Will sell all or any part. Save money on your traveling expenses by writing us.

THE IMPROVEMENT BULLETIN  
Minneapolis Minn.

## FOR SALE

The entire contracting outfit of R. A. Elzy, deceased, for sale, including team outfits, paving outfit, drag lines, pumps, engines, wagons, graders, wheelers, slips, etc. Everything must be sold to settle estate. Address

RACHEL A. ELZY and  
WM. J. ELZY, Executors

MARSHALLTOWN, IOWA

## Proposal Advertisements For Bids

### NOTICE TO CONTRACTORS. Gymnasium, Cooperstown, N. D.

Sealed proposals will be received by Berg Bros., at Cooperstown, N. D., up to 1:30 p. m., of Monday Feb. 1, 1915, for the erection and completion of the A. H. Berg memorial gymnasium.

Plans and specifications may be seen at the office of Berg Bros., Cooperstown, N. D., and at the office of Hancock Bros., Fargo, N. D.; also at Builders' Exchange, Minneapolis.

Each bid to be accompanied by a certified check for \$300.00, made payable to Berg Bros.

The check of successful bidder will be forfeited should he fail to enter into contract and furnish a surety bond for the faithful performance of the work.

The right to reject any or all bids is reserved.

By order of Berg Bros., Agents.  
HANCOCK BROS., Archts.

### High School, Excelsior, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a High School Building at Excelsior, Minn., including all labor and material under contract A, general work and painting, will be received by Board of Education, at Excelsior, Minn., until the hour of 6 P. M., on the 20th day of February, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by McElroy & Kinports, of Minneapolis, 416 Essex Building, which may be seen at the office of said Architects on and after Feb. 3, 1915, and may also be seen on application to W. M. McDonald, Clerk of Board, at Excelsior, Minn.

A deposit of \$5.00 each, per set of plans or specifications, will be required from each bidder, same to be refunded on return of said plans and specifications.

A certified check for \$100 payable to the order of Board of Education, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory

bond in the sum of amount of contract, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) W. M. McDONALD, Clerk,  
Board of Education of Excelsior.  
Place, Excelsior, Minn.  
Date, January 28, 1915.

### PAVING. Austin, Minn.

Bids will be received until 8 o'clock, P. M., February 5, 1915, by the City of Austin, for the construction of approximately 13,000 square yards of paving on Kenwood Ave.

A certified check of 5 per cent must accompany bid, payable to the City.

Plans and specifications can be seen at the office of the undersigned. A deposit of \$5.00 required if same are to be mailed to any address.

OSCAR F. WEISSGERBER,  
City Engineer.

### CENTRIFUGAL PUMP. Ely, Minn.

Bids will be received until 8 (eight) o'clock, P. M., Feb. 2, 1915, by I. Wisted, Jr., City Clerk, Elk, Minn., for a Motor Driven Centrifugal Pump of 500 gallons per minute capacity, and 1-16-inch Venturi Meter.

Specifications are on file at Builders' Exchanges at Minneapolis, St. Paul and Duluth and at the office of I. Wisted, Jr., City Clerk, Ely, Minn. and W. C. Buck, Consulting Engineer, Minneapolis, Minn.  
I. WISTED, JR., City Clerk.  
Ely, Minn.

### BIDS FOR EXTENSION OF STREET LIGHTING SYSTEM. Grand Forks, N. D.

The undersigned hereby gives notice that sealed proposals for the laying of underground wires and the installation of lamp posts in the extension of the Ornamental Street Lighting System of Grand Forks City, North Dakota, including all labor and material, will be received by W. H. Alexander, City Auditor, until the hour of 5 p. m., on the first day of March, 1915.

All bids must be in strict accordance

with the plans and specifications, prepared by J. J. Smith, City Engineer of Grand Forks City, N. D., which may be seen at the office of the City Auditor of said city on and after January 20, 1915, and may also be seen on application to J. J. Smith, City Engineer.

A certified check for \$500, payable to the order of the Mayor of Grand Forks City, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in a sum equal to amount of the bid, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) W. H. ALEXANDER,  
City Auditor.  
Grand Forks, N. D.  
Place, Grand Forks, North Dakota.  
Date, January 20, 1915.

### BANK BUILDING. Emmons, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of brick and stone bank building, 2-story and basement, including all labor and material, will be received by The First National Bank of Emmons, Minn., until (date not given).

All bids must be in strict accordance with the plans and specifications, prepared by Thorwald Thorson of Forest City, Iowa, which may be seen at the Builders' Exchange, Minneapolis, and may also be seen on application to the architect. For further particulars, address Bank or Architect Thorwald Thorson, Forest City, Iowa.

### WANTED TO BUY.

Twelve Second Hand Tile Cars and 1 Transfer Car. These cars should be 8 feet long with 3 decks, for use on a 2-foot gauge track.  
ARLINGTON CEMENT STONE WORKS,  
Arlington, Minn.

### ROLLER WANTED.

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTLE, Sioux City, Iowa.



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles. roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
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## The Youngstown Iron & Steel Co.

YOUNGSTOWN, OHIO

MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.

"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.

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In Gauges Nos. 7 to 20 Inclusive.

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## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## STEEL TANKS SURELY PAY

These pictures are typical of the many instances where we have replaced old wooden tanks and towers with new steel structures. The old tanks will be torn down.

You better let us figure with you on your tank and tower needs.



235,000 gal. Stand Pipe, Lisbon, N. D.  
80,000 gal. Tank and Tower, Stewartville, Minn.

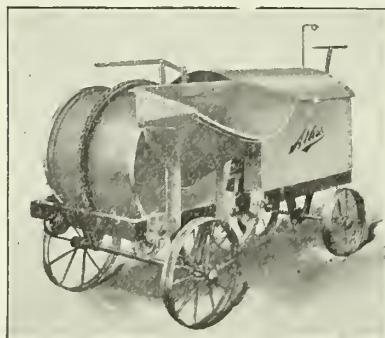
Minneapolis Steel & Machinery Co. can give most prompt and efficient service in every kind of steel construction:

Steel Buildings  
Mill Buildings  
Tanks and Towers  
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Bridges

**Minneapolis Steel & Machinery Co.**

Minneapolis Minnesota Also manufacture contractors Hoists and Derricks

## The *Atlas* Mixer



Furnished  
with  
Batch  
Hopper  
or  
Power  
loader.

5  
and  
11 foot  
Capacity

## It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

## Atlas Engineering Company

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## STRUCTURAL STEEL AND ORNAMENTAL IRON WORK

Trusses, Girders, Columns,  
Stairways, Fire Escapes, &  
Grilles.

Write us. Estimates cheerfully furnished.

**Davenport Machine & Foundry Co.**  
DAVENPORT, IOWA





## PUBLIC BUILDINGS



**Iowa, Hawarden**—Committee appointed to submit plan regarding city hall, later to be voted on by citizens; T. J. Reeves, city clerk.

**Iowa, Rockwell City**—This city offers site of 160 acres for proposed women's reformatory.

**Kans., Independence**—Plans will probably be selected at once from competitive bidders for city hall building, and bids advertised for on construction; address city clerk.

**Minn., Breckenridge**—Arrangements concluded for sale of bonds to build city hall, jail and fire station to cost \$25,000; C. E. Bell, architect, Security Bank building, Minneapolis; 50x100, 2-story and basement; D. J. Jones, city clerk.

**Minn., Hibbing**—Holstead & Sullivan, Palladio building, Duluth, selected as architects for proposed court house; plans will be started later; D. Haley, village clerk.

**Minn., Mountain Iron**—It has been decided to build a village hall at a cost of \$20,000, to take the place of the one recently burned; address city clerk.

**Minn., St. Cloud**—City commissioners considering plans for city hall with jail to be added in the near future; G. G. Magnuson, city clerk.

**Mo., Fayette**—Site has been selected for proposed library building, architect not yet selected; probably 1-story and basement, fireproof; address the mayor.

**Mo., Sedalia**—County court expected to take up the question of a jail building this week; 3-story and basement, fireproof; address the mayor.

**Mont., Cascade**—Will of August Wendsworth left from \$75,000 to \$100,000 for town library and its perpetual maintenance; address city clerk.

**Mont., Denton**—Funds being raised to build and equip fire house, cost about \$2,000; address village clerk.

**Nebr., Chappell**—Petition in circulation asking for special election to vote on court house to cost \$20,000; probable definite action in the spring; address county clerk.

**Nebr., Harvard**—Plans for Carnegie library have been approved by the Carnegie Library Foundation, and subscriptions are now being collected; H. G. Wellensick, treasurer, library board.

**Nebr., Hastings**—If business men will guarantee the rent for 10 years, in case the legislature fails to appropriate funds to do so, the Kerr estate will authorize work to start on the proposed armory; 66x120, front 50 feet, to be 2-story with basement, back 75 feet to be an auditorium and gun shed; basement to have locker rooms, reading rooms, shower baths; first floor to have officers' quarters, gun and property rooms, and the third floor social rooms and kitchen; address captain local military company.

**Nebr., Lincoln**—University Place citizens voted in favor of a Carnegie library, the building not to be located on the campus; address city clerk.

**Okla., Oklahoma City**—Reported new bids may be asked for on construction of state capitol; three bids submitted, but no contract yet awarded.

**Okla., Ponca City**—Proposition being agitated for court house for Kay county to cost \$100,000; probably definite action soon; address county clerk.

**Ore., Grant's Pass**—Tentative plans have been received for proposed new court house for Josephine county from E. McClaren, architect, Portland; 130x54, 2-story and basement, cost from \$20,000 to \$80,000, depending on material.

**Ore., Seattle**—County commissioners will receive bids until Jan. 25 for competitive plans on new juvenile detention home; address county clerk.

**Ore., The Dalles**—Wasco county has purchased old fair grounds west of city to be used as a poor farm; exhibit pavilion to be remodeled; address county clerk.

**S. D., Hayti**—Special election Jan. 26, to vote on bonds for a court house and jail to be built at Hayti county; Guy Osborn, county auditor.

**Wash., Stevenson**—County engineer has been ordered to prepare plans for remodeling court house.

**Wis., Marion**—Sketches being prepared by C. C. Fritz, architect, Shawano, Wis., for city hall; 46x64, 2-story and basement, \$10,000; address John Miller, Marion, for particulars.

**Wis., Wycena**—Columbia county board has appropriated \$15,000 for a central heat, light and power plant for the county insane asylum and poor house here; \$30,000 appropriated previously for new poor house; John Scott, chairman, building committee.

## BIDS WANTED.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent until 10 a. m., Feb. 8, for steel and iron to be used

in construction of the new building for the water works department, 25 E. 5th st.; check for 10 per cent.

**Mont., Forsyth**—Bids received by city clerk until Feb. 4, on city jail building; 45x62, 1-story, concrete, reinforced concrete and brick; \$6,000.

**S. D., Alexandria**—Bids received by W. A. Caldwell, county auditor of Hanson county, until 2 p. m., Feb. 9, for wiring court house for electric lights.

## CONTRACTS AWARDED.

**Iowa, Muscatine**—Contract to Jas. Selden, city, for armory; 70x140, 2-story and basement, \$40,000; Jos. E. Mills & Son, architects, Kresge building, Detroit, Mich.; Dr. H. F. Lang, chairman, building committee.

**Mont., Bozeman**—Contract to Olson & Johnson Co., Missoula, Mont. for U. S. post office at about \$67,500; 2-story, first floor, fireproof, concrete and steel, second floor of steel and mill construction, oak interior finish, outside wall red brick, trimmed with stone, basement to first story faced with granite; work to begin in April, to be completed in one year.

**Ore., Medford**—Contract to Sound Construction Co., Lowman building, Seattle, for post office building at approximately \$60,000; 2-story, stone.

**S. D., New Effington**—Contract to Otto Zeller for fire house at \$390; cement blocks concrete floor, 16x24.

**Wis., Antigo**—Contract to Nick Fredericks for painting and papering the interior of the county jail and sheriff's quarters.



## HOTELS AND HOSPITALS



**Iowa, Brooklyn**—Expect Frank Dewey, owner, will award contract about Feb. 15, on proposed hotel building, 3-story, 64 rooms, \$35,000; brick, cut stone, trimming; plans under way.

**Iowa, Bellevue**—Plans for proposed hotel completed by Jno. Spencer, architect, Dubuque; 58x60, porch 14x58, 3-story, brick, modern, \$16,000. Commercial club back of proposition.

**Kan., Hiawatha**—Proposition being agitated for fireproof city hospital building and probable definite action in the spring. Address the mayor.

**Kan., Ottawa**—Probable that definite action will be taken in the early spring on a family hotel building contemplated by J. E. Grover; brick construction.

**Kan., Preston**—Announced that W. G. Bowerman, owner, will rebuild hotel structure recently burned; probably 2-story and basement; brick, stone, steel and wood.

**Kan., Victoria**—Reported plans have been completed for a hotel building to be erected by Fred Toeffer; 36x60, brick and stone; C. A. Smith, architect, Salina, Kan.

**Minn., Bemidji**—Samaritan hospital burned; loss \$10,000, insured for one-half; building owned by Bagley Loan Association; Mrs. Aline Smith, owner of hospital.

**Minn., Glenwood**—Unanimously decided to locate proposed tuberculosis hospital for Grant, Douglas, Pope and Stevens counties on a site near this place; Sund & Dunham, architects, Andrus building, Minneapolis; cost \$60,000; Dr. A. E. Eberlin, Glenwood, permanent secretary of hospital committee.

**Minn., Jordan**—Hoffman & Mosse, architects, Rochester, will prepare plans for reconstruction of the Mudhaven sanitarium; 100x68, \$40,000.

**Minn., Maple Lake**—Plans out next week by Silas Jacobson, architect, Capital Bank building, St. Paul, on hotel for Frank Hoppe; 46x116, 2-story, brick, hot water heat, modern, tile floors, metal ceilings.

**Minn., New Ulm**—Commission of eight members has been appointed, composed of the chairmen of the boards of supervisors of the counties of Nicollet, Faribault, Watonwan, Waseca, LeSueur, Blue Earth, Martin and Brown, to investigate and report cost of suitable site and buildings for proposed tuberculosis sanitarium; another meeting will be held when committee is ready to report.

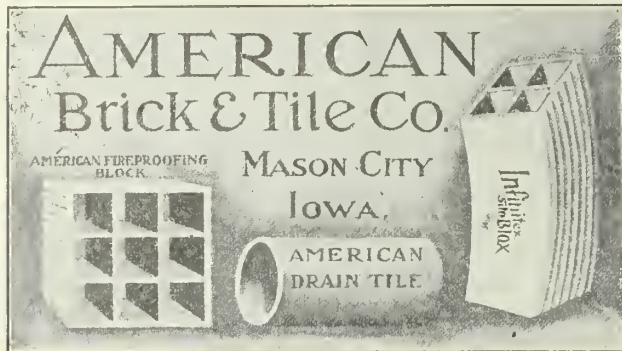
**Minn., Wayzata**—Dwight J. Carpenter and others have filed articles of incorporation with secretary of state for the Lakeview Sanatorium Co.; \$50,000 capital stock, and will build sanitarium on Stubbs' Bay, Lake Minnetonka; Mr. Carpenter was formerly with the Olson hospital, 1828 Central av. NE.

**Mont., Great Falls**—Plans for the New Park hotel completed by Geo. H. Shanley, architect, city, and bids to be asked for at once; 50x150, 5-story, 150 rooms, cost \$250,000; reinforced concrete faced with pressed brick and terra cotta.

**N. D., Hebron**—Stock is being sold for hospital; probably be incorporated soon; address mayor.

**Ore., Salem**—State board of control during this summer plans erecting the following medical buildings at Portland, to cost \$300,000; wing to Eastern Oregon hospital, cost \$120,000; north wing to Oregon state hospital, cost \$60,000; normal



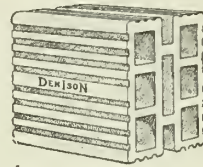


**AMERICAN**  
Brick & Tile Co.

AMERICAN FIREPROOFING BLOCK MASON CITY IOWA  
AMERICAN DRAIN TILE

Infinitex

Manufacturers of Common and Hollow Brick, Hollow Building Blocks, Fireproofing and Partition Tile, Vitrified Drain Tile from 4 to 24 inches. WE ALSO MANUFACTURE THE INFINITEX SILO BLOCK



## DENISON LOAD-BEARING TILE

U. S. and Foreign Patents Pending.

THE STRONGEST TILE  
IN THE WORLD

Guaranteed crushing strength, 600 pounds to the square inch.

Superior for stucco exteriors or bonds perfectly with brick.

Non-continuous mortar joints.

Vertical webs directly over each other.

Saving in cost erected of 25% over brick construction.

## FIRE-PROOFING MASON CITY BRICK & TILE CO.

MASON CITY, IOWA

Makers of All Kinds of Silo Tile, Drain Tile, and Hollow Building Blocks.

## Tile and Marble

For Floors, Walls, Ceilings, Etc.  
Slate Blackboards, Steps, Plat-  
forms, Marble Interior Finish,

ESTIMATES

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N. W. Nicollet 2789

CALL US UP  
TODAY

**TWIN CITY TILE & MARBLE CO.**  
312-14 7TH ST. S. MINNEAPOLIS, MINN.

## A. C. OCHS BRICK & TILE CO. **BRICK**

Manufacturers of the  
CELEBRATED A - C - O

SAND MOULD and WIRE CUT FACE BRICK and BUILDING TILE

Works: {Springfield, Minn. General Office: { Springfield, Minn.  
{Hercen Lake, Minn.

POROUS HOLLOW TILE

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HOLLOW TILE PLOCKS FOR RESIDENCES

**NORTHWESTERN FIREPROOFING CO.** 107 Kasota Bldg  
MINNEAPOLIS

## JUST AS GOOD AS A CANTON

Ever hear a competitor use that expression? Doesn't that admit, WITHOUT A DOUBT, that the "CANTON" is Known as the best. They are too, and for these reasons:

Punched Nail Holes. Repressed Joints. Lowest Cost

ANY ONE CAN ERECT A CANTON

## THE CANTON STEEL CEILING COMPANY

206 South Third Street, Minneapolis

BEWARE OF IMITATION, GET THE ORIGINAL

## The Flint Brick Company

Manufacturers of

### *Paving Brick and Blocks*

Sidewalk, Building, Sewer and Black Face Brick.  
DES MOINES, IOWA

## Chaska Brick & Tile Co.

Manufacturers of

### CHASKA BRICK

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Telephones  
N.W. Cedar 1433  
T. S. 294

613 Ryan Bldg., St. Paul, Minn

## BRICK COMMON HOLLOW PRESS

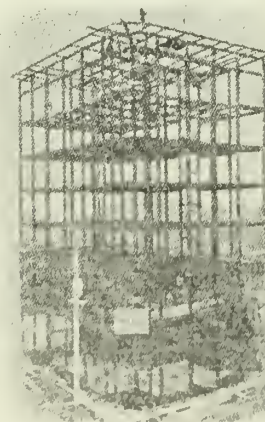
ALL ORDERS Filled Promptly **Sioux City Brick & Tile Works**

## HEBRON BRICK

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school at Monmouth, cost \$50,000; repairs to state agricultural college, Portland, cost \$50,000; new college building at state medical school, cost \$50,000 and \$124,000 for buildings at the state fair in Portland.

**Sask., Shaunavon**—Empress hotel burned; loss, \$65,000.

**S. D., Columbo**—Commercial club has arranged to have the nine rooms of the Holbrook building used as a general hospital; Dr. A. P. Kimball to be in charge; rooms will be completely fitted up.

**S. D., New Effington**—Site will be provided free by the village and townsite company for a modern hospital, and stock will be sold to put up a \$5,000 building; address the mayor.

**Wash., Tacoma**—Fire destroyed interior of Sterling hotel; partly covered by insurance.

**Wash., Walla Walla**—St. Mary's hospital burned; loss \$100,000.

**Wis., Polonia**—Frank Spalenka, architect, Stevens Point, will take bids next month on Orphans' home owned by Felecia sisters; 65x100, 2-story and basement, \$14,000.

**Wis., Sherwood**—Shankey hotel burned; loss \$4,000; fully covered by insurance.

**Wis., Sturgeon Bay**—Bids to be taken soon by Co-operative Orchards Co., care J. C. Martin, on hotel building, 80x150, 2-story, \$10,000; Carr & Walsh, architects, Minahan building, Green Bay, Wis.

**Wyo., Cheyenne**—A new hotel building will be erected in the near future by Senator F. E. Warren.

#### BIDS WANTED.

**Iowa, Independence**—Bids will be received by architect about March 1, on Buchanan county home, care L. P. Timpson, Quasqueton, Iowa; Harry E. Netcot, architect; 60x90, 2-story, \$40,000.

**Iowa, Marshalltown**—Announced that architects will take figures about Feb. 1, for an addition and remodeling of nurses' home for the Evangelical Deaconess' Home and Hospital Association; Reimer & Herlin, architects, city; brick, stone, cement, lumber, heating, lighting, plumbing, etc., \$18,000.

**Iowa, Sioux City**—Reported bids will be taken in February for Shesler deaconess' home; fireproof construction; cost \$25,000.

**Minn., Red Lake Agency**—Bids received by Cato Sells, commissioner Indian Affairs, Washington, D. C., until 2 p. m., Feb. 15, for a frame hospital at the Red Lake Agency; plans with Builders' Exchange, St. Paul.

**Wis., Rhinelander**—Announced that bids will be taken about Feb. 10, on hotel owned by new company, care Geo. Herman, Antigo, Wis.; 100x120, 3-story and basement, \$75,000.

#### CONTRACTS AWARDED.

**Kan., Lawrence**—Contract to J. E. Constant, city, for general, on club house for Country club; 2-story and basement, stone and wood; material being assembled.

## THEATRES AND HALLS

**Iowa, Davenport**—Family theater building owned by Richard Mittelbuscher and Chris. G. Behrens will be remodeled; new front, partition and stage to be torn out; new interior, ventilating, plumbing and heating systems, redecorations, etc.; work to start about June 1; owner will award contract.

**Iowa, Morrison**—Building of new Lyric theater will be started as soon as weather moderates; debris of former building cleared away; address the mayor.

**Minn., Anoka**—Work on the open air municipal theater, on the river bank will be resumed and finished in the spring; concrete, seats and steel frame for haulings; address Prof Giddings, care school board, City Hall, Minneapolis; seats for 1,500.

**Minn., Fairmont**—Contract to Anderson & Whitson, Mankato, for the new \$25,000 theater; 51x150, steel and brick, onyx stone trimmings in foyer and vestibule.

**Minn., Luverne**—Herman Joachims, Schleswig, Iowa, owner of Union hall here, will build a thoroughly modern play house, costing \$40,000; 63x135, 2-story, brick; building will also contain two store rooms at the front of the building; seating capacity about 675.

**Minn., Redwood Falls**—Commercial club wants city to build city hall and either rent the 2d story to the Commercial club or permit the club to build the 2d story; Ira Reynolds, president.

**Minn., Winona**—Arthur N. Starin, architect, Duluth, will prepare plans for new gymnasium building in connection with the Y. W. C. A.; 50x70, 2-story, brick, fully modern; Miss Florence Youmans, chairman, building committee.

**Mont., Butte**—Marcus Loew, owner of Empress theater and of theaters in 128 other cities in the U. S., says he expects

to build a high class theater in Butte, though perhaps not in the near future.

**Mont., Roundup**—Majority of committee of state lodge of Eagles favor location of state Eagles' home at Roundup; J. H. Danils, trustee of local order.

**Neb., Kearney**—Preliminary plans under way for display hall for the Buffalo County Fair Association; to be built in the spring.

**N. D., Devils Lake**—Building committee of Elks' lodge has under consideration set of plans drawn by eastern architect for proposed lodge building; address secretary of the order; Colonial, portico of terra cotta, tapestried brick front; press brick sides, tile floors; 42x145, and ornate.

**N. D., Jamestown**—Ft. Seward lodge, A. O. U. W., considering building a lodge home this season; Andrew Haas for information.

**Ore., Haines**—F. G. O'Bryant is promoting the building of a hall to be used for theatrical and dancing purposes.

**Ore., Hermiston**—Work to be started at once on building to be used as a picture theater and public hall; 40x80, concrete, \$5,000.

**Ore., Hillsboro**—Phelps & Phelps of Grand theater, will begin work at once on rebuilding of theater and construction of addition.

**Ore., Klamath Falls**—Elks decided to build club house; 65x240, \$40,000.

**Ore., Portland**—Westover club will build club house to cost, with equipment, \$20,000; old English, stucco and frame; Earl A. Roberts and Lee A. Thomas, architects.

**Ore., Portland**—Ivan Humanson is head of a syndicate preparing to build public natatorium.

**Wash., Kalso**—Independent Order of Red Men have secured site and will build 2-story lodge room, dance hall and store room.

**Wis., Antigo**—Preliminary plans in progress for theater and office building; owner's name withheld; C. F. Dahlman, architect.

**Wis., Argyle**—Masons purchased site for proposed temple to cost \$8,000.

**Wis., Baraboo**—Architects reported to be ready about Feb. 5, for bids for theater to be built by Al. Ringling, Sarasota, Fla.; 90x140; C. W. and Geo. L. Rapp, architects, 69 Washington st., Chicago.

**Wis., Beloit**—Movement started to incorporate base ball club and build grandstand, bleachers, fence, etc.; J. A. Schuster, chairman committee to incorporate.

**Wis., Chippewa Falls**—Interior of the Metropolitan theater is undergoing a general overhauling and rearrangement under the new lessees, Milton L. Lamb and Walter Schwaner; stage will be rebuilt, seats made roomier.

**Wis., Delavan**—Knights of Pythias have appointed committee to raise funds for site and erection of lodge and club house to cost \$20,000; E. L. von Suessmilch, chairman committee.

**Wis., Eau Claire**—Announced that the O. Klare picture theater will be enlarged to double its present capacity.

**Wis., Eau Claire**—A. D. McDonald will build 40-foot addition of concrete to Rex theater building soon as frost is out of the ground; seating capacity to be increased 600.

**Wis., Marshfield**—Site for proposed Eagles' lodge fully paid for, and building plans being considered; O. R. Lange, secretary.

**Wis., Marshfield**—Plans being prepared for W. H. Kamps for new theater building; 40x150, 2-story; lower floor leased to C. W. Rice for an up-to-date picture theater; owner and lessee in the market for fixtures.

**Wis., Melrose**—Plans being prepared for F. H. Smith for new opera house and office building; 40x75, brick.

**Wis., Milwaukee**—Kenwood Masonic lodge is planning erection of a \$50,000 club house.

**Wis., Milwaukee**—Knights of Columbus to build addition to club house to cost \$50,000; 70x130, 3-story, brick and stone; gymnasium and swimming tank; bids to be received after March 1.

**Wis., New London**—The New London Trapshooting club will build club house; J. H. Look, secretary-treasurer.

**Wis., Rhinelander**—H. C. Zander, owner, Majestic theater, announces that work on remodeling and enlarging that building will begin in early spring; will be made into a picture theater, with seating capacity of from 750 to 800; plans and specifications by Mr. Liebert, architect, Wausau, Wis.

**Wis., Rice Lake**—Eagle Hunting and Fishing club will build a \$4,000 club house at Phillips this year.

**Wis., Shiocton**—Plans reported to be on foot for a new opera house, work to begin early in the spring; address the mayor.



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## SCHOOLS

**Alta, Viking**—Fire destroyed the \$20,000 school; loss covered by \$10,000 insurance.

**Idaho, Burley**—Bond election will be held at next meeting of school board for issuance of \$80,000 bonds for modern school; address clerk board of education.

**Iowa, Fort Atkinson**—Bids will be received until Jan. 28, for school plans and specifications at office of county superintendent of schools, Decorah, Iowa; A. J. Schreiber, secretary, board.

**Iowa, Missouri Valley**—A new technical school, 100x90, 3-story, will be erected in the spring; plans by Architect F. E. Colby, Farmers' Loan & Trust Co. building, Sioux City, to be ready about March 1, cost \$80,000; concrete and brick, fireproof, plumbing and fan ventilation, gymnasium, baths, four manual training rooms, 6-class rooms, 2 commercial rooms, superintendent's office, library, seat 600, 3 science laboratories, 3 domestic science rooms.

**Minn., Anoka**—Further meetings will be held soon by the taxpayers to consider the proposed bond issue of \$50,000 for a school; Mrs. G. H. Wyman, clerk.

**Minn., Bemidji**—The normal schools committee of the Minnesota house have recommended appropriation of \$150,000 for erection of a normal school. Bill introduced by Representatives Pendergast, Miner, Wilkins, and others.

**Minn., Minneapolis**—The school board voted to pay \$9,000 for a new school site, between 15th and 16 avs.

**Minn., Montevideo**—A new and larger building will be erected the coming season to replace Windom college, recently burned.

**Minn., St. Paul**—Plans for the four room addition to the Ames and Galtier schools are being prepared by City Architect C. A. Hausler, cost about \$25,000 to \$22,000, each; an 8-room addition will be erected at the Randolph Heights district, at \$42,000; a new school in the Drew district, at \$23,000, and an 8-room building in the McClellan district, at \$45,000.

**\*Neb., Lawrence**—W. F. Gernandt, architect, 39 State Bank building, Omaha, is preparing plans for a public school building; brick and stone, semi-fireproof, 2-story and basement; cost, \$17,000; date for bids not set yet; iron joist hangers, fire escapes, tile reinforcing concrete, Gypsum block, fireproofing, lime cut stone, common, pressed brick, steam heat, well water, hand pump, electric lights, sheet metal and galvanized cornice, two ventilators, composition roof, composition patent plaster board, metal lath, corner bead, plate, prism and wired glass, slate blackboards, yellow pine floors, oak finish. W. H. McCauley, secretary of board of education.

**Neb., Madison**—General plans have been completed for dairy building, three stories, to contain class room, laboratory, and refrigeration plant. Plans are in progress for an agriculture engineering building. General Architects' plans mention a combination library and auditorium, etc.

**N. D., Courtenay**—Fire destroyed the school building in section 23.

**N. D., Fortuna**—A new 4-room school will be erected here in the spring.

**S. D., Bonesteel**—There will be introduced in the legislature soon a bill providing for the erection of a state normal here.

**Wis., Cobb**—Fire damaged the school building here about \$1,500.

**Wis., Eastman**—A new \$20,000 school building will be erected here the coming season.

**Wis., Madison**—Plans for a men's dormitory have been accepted to have 120 single rooms and 115 double rooms, estimated cost of construction, per room about \$470 per double and \$340 per single, to accommodate 350 students, cost \$135,000; contract awarded to T. C. McCarthy, for new soils building, at \$49,249.

**Wis., Milltown**—Plans are under way for erection of a union high school here; Geo. A. Nelson, clerk, A. D. Mattison, treasurer school board.

**Wis., Sheboygan**—Common council has instructed the city attorney to draft a resolution providing for a bond issue of \$150,000 for construction of new high school; architect not selected yet.

**Wis., Watertown**—Board of education has engaged Parkinson & Dockendorff, architects of La Crosse, Wis., to make plans and estimates for rebuilding and enlargement of the high school.

## BIDS WANTED.

**Iowa, Colo**—Bids received from 1 p. m. to 6 p. m. Feb. 15, to vote on proposition of issuance of bonds in sum of \$33,000

for new school, District of Colo, C. W. Yeager, secretary board of directors.

**Minn., Ely**—Bids will be received until 2 p. m., Jan. 25, for furniture and installation of same in new school building, nearing completion. Schedule of furniture may be had on application to secretary of school board, Thos. E. Miller, Ely. C. Howard Parsons, architect, Phoenix building, Minneapolis. Check for 10 per cent. Alex. Anderson, treasurer, District No. 12, St. Louis county.

**Minn., Morgan**—Bids received until 10 a. m., Feb. 2, for addition to public school building; plans at office of Clerk J. C. Jackson; plans were drawn by Albert Schippel, architect, Mankato, Minn.

**Minn., Morgan**—Bids received until 10 a. m., Feb. 2, for a school building, addition to the public school; plans at office of clerk; J. C. Jackson, clerk.

**Mont., Redstone**—Bids will be received until 4 p. m., Feb. 15, for sale of \$4,000 school bonds, district No. 2, Sheridan county, 6 per cent; check 10 per cent; J. W. Bucklin, chairman; S. E. Paul, city clerk.

**Mont., Roundup**—Bids received until 4 p. m., Feb. 14, for purchase of two coupon bonds in sums of \$325 each, district No. 39, Musselshell Co., check 5 per cent; V. G. Gossman, chairman, board of trustees; Al. Chapman, clerk of school board.

**Mont., Roundup**—Bids received until 3 p. m. Feb. 10, for erection of two schools; plans at B. A. Leslie, chairman, or L. M. Simms, clerk of board. District 18, Musselshell county; bond in sum of \$500.

**Mont., Savage**—Bids received until 1 p. m., Jan. 30 for school bonds in sum of \$600, 6 per cent, for new school in district No. 66, Richland county; Mrs. Geo. G. Miller, clerk of district.

**Mont., Sweetgrass**—Bids received until Feb. 5, 4 p. m., for sale of \$2,000 school bonds; check \$100; J. E. Fitzpatrick, chairman.

**N. D., Ellendale**—Bids received until Feb. 9, at City Hall, to vote on issuance of \$19,000 bonds for school in Dickey county; B. R. Crabtree, clerk.

**Wis., Ashland**—Contract will be awarded soon for new farm school to be built by Bayfield and Ashland counties at the state experimental farm at Ashland Junction, to be finished about March 1.

**Wis., Independence**—Bids will be called for 2 p. m., Feb. 17, for high school; plans by O. H. Round, architect, St. Paul, Minn.; cost \$35,000; brick and concrete.

**Wis., Lodi**—Bids received until Feb. 12, by Dr. T. O. Goeres, secretary, for school building for district No. 1, village and town of Lodi; plans by Chandler & Park, architects, Racine, Wis.

**Wis., Oshkosh**—Bids received until Feb. 3, 2 p. m., for sale of \$165,000 school bonds; check 5 per cent; Fred Heinz, city comptroller.

**Wis., West Bend**—Bids received until Feb. 1, for school in district No. 9, Farmington; plans at Aug. Degners' or at Henry Schact's, in Farmington; brick.

## CONTRACTS AWARDED.

**Minn., Osakis**—General contract awarded to Ole C. Even-son of city for new school building, electrical work to Groose-Langford Electrical Co., Minneapolis.

**Minn., Osakis**—Contract awarded to John Cherne, Virginia, for installing heating and plumbing in new school at Osakis.

**Minn., St. Paul**—The church of St. Columbia may build a school here, cost \$40,000; Father M. J. Casey, pastor.

**Mont., Billings**—Contract awarded to Dedrick & Piper, architects, for preparing plans for addition to the Jefferson high school; \$22,000 bonds will be issued.

**Mont., Sixteen**—Contract awarded to Jas. R. Wallace, of Ringling, for school in district No. 7, at \$1,265; state plans.

**Wis., Prairie du Chien**—Contract awarded to Fuelling & Hinch of Farmersburg, at \$11,418, for new school, work to start in spring.

## MILLS AND FACTORIES

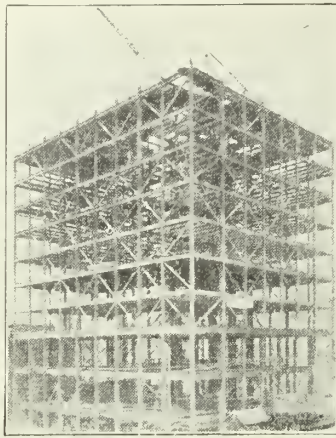
**Iowa, Davenport**—Fire destroyed the plant of the Crescent Macaroni & Cracker Co.; loss about \$250,000; insured at \$150,000.

**Iowa, Fort Madison**—Plans are nearing completion for a factory building, for the Larson Ice Machinery Co., Fort Madison First Association, interested; address secretary.

**Minn., Bemidji**—J. R. Raymond and R. Woodward of Pelican Rapids will erect a foundry here.

**Minn., Faribault**—Fire destroyed the foundry and machine





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shop of A. Anderson & Sons; loss about \$5,000, firm will rebuild in spring.

**Minn., Minneapolis**—The Minneapolis Feed Co.'s mill and elevator burned; loss about \$50,000; O. E. Davidson, manager of elevator.

**Minn., Terrybone**—Fire destroyed the Terrybone flour mill and warehouse, damage to extent of \$25,000 done, insured at \$6,000; Chas. Kankel, owner, Red Lake Falls, Minn.

**Minn., Tower**—Sakris Miemi, local inventor, will erect a factory here.

**Mont., Moore**—Moore Milling Co. incorporated; S. L. Dotson, manager, Farmers' Elevator Co., F. L. Dotson of Straw, H. H. Duncan of Buffalo, incorporators; will erect new mill; contract awarded to the N. W. Mill Construction Co. of Billings.

**Mont., Polson**—The management of the Polson Creamery Co., plans erection of a cold storage warehouse in connection with creamery.

**Ore., Enterprise**—East Oregon Lumber Co., I. H. Fetty, president, 1420, will erect a saw mill and railroad, cost \$300,000; private plans, day labor; address owner at Kansas City, Mo.; R. A. Long building.

**Wis., Shawano**—A factory to manufacture hubs, spokes and turned goods, will be erected here by Geo. T. Harding of Merrill, Wis.; cost about \$20,000.

**Wis., Marshfield**—C. E. Blodgett is having plans prepared for a cold storage plant, capacity 300 cars, 4-story, 50x60, equipped with 50 h. p. electric motor for ice machine, elevator and machinery driven.

**Wis., New Richmond**—Stephen Everson, member of the A. S. & E. committee, and others interested, may build a farmers' co-operative packing plant here; cost about \$250,000; modern throughout.

## CHURCHES

**Iowa, Pocahontas**—The Sacred Heart Church parish will erect an addition to their church.

**Kans., Dodge City**—Plans have been submitted for a church for the Catholic congregation, Father John Hadley, pastor; Spanish mission architecture concrete and brick, wide piazza across entire front, 1-story, basement, roof surmounted by two crosses.

**Kans., Olpe**—Plans are under way for new church to replace one burned recently, for Catholic congregation, at Eagle Creek, 5 miles southeast of Olpe; brick and stone; contract probably to be awarded about Feb. 1.

**Minn., Blue Earth**—Work has begun on preparation for new church building, to begin as soon as weather permits.

**Minn., Long Lake**—Contract awarded to George Hollander, of Minneapolis, for South Long Lake Presbyterian church, at \$1,365, to be completed by May 20.

**Minn., St. Paul**—The church of St. Columbia plans erection of a new church building; cost about \$75,000; Father M. J. Casey, pastor

**Minn., Verndale**—The Catholic congregation will erect a new modern edifice in the near future.

**Neb., Fremont**—The First Christian church is contemplating erection of a new church building in 1916.

**Neb., Lincoln**—Contract awarded to Chas. Olson for new Congregational church edifice, light gray pressed brick walls.

**Neb., Battle Creek**—Members of the German Lutheran congregation will build a modern brick edifice to replace old frame building.

**Neb., St. Edward**—Bids will be received until Jan. 28, 7:30 p. m., for a brick and stone church; plans prepared by J. H. Craddock, architect, Omaha; Rev. H. P. Cooter, pastor, St. Edward's; check 5 per cent.

**N. D., Sims**—The Norwegian Lutheran church will remodel their church; Architect Nick Freeburg is preparing plans and bids to be taken until Feb. 28.

**N. D., Willa**—Architects are preparing plans for a new church to be erected by the Catholic congregation; cost about \$5,000.

**S. D., Rowell**—Fire destroyed the Methodist church and parsonage; loss about \$3,500; will rebuild church at once.

**S. D., Viborg**—The M. E. Association will remodel their church in the spring.

**S. D., Watertown**—Plans being prepared for a church for the Presbyterian congregation by Architect A. H. Schoultz; bids to be taken March 15; cost \$16,000.

**Texas, Dallas**—Rosemont Christian congregation will erect a church; plans under way; Rev. J. H. Fuller, pastor; cost

\$10,000; brick, stone, cement, steel, hardwood, heating, lighting, plumbing, probably tile roof, seats, etc.

**Wis., Bloomington**—The M. E. church will remodel their church.

**Wis., Eau Claire**—A new church will be erected by the Grace Lutheran congregation; cost about \$30,000; spring work.

**Wis., Sharon**—The Lutherans will erect a new church edifice in the spring; cost about \$12,000.

## ELECTRICAL

**Iowa, Sioux City**—About \$50,000 improvements will be made to the plant of the Sioux City Gas & Electric Co. this year, according to statement of L. L. Kellogg, president and manager.

**Kans., Natoma**—Contract awarded to F. D. Martin Construction Co., of Kansas City, Mo., for municipal electric light system; W. B. Collins & Co. of Kansas City, Mo., engineers.

**Kans., Wilson**—The Wilson Electric Light Co., plans within the next three months to purchase a steam driven generating unit (from 50 k. w. to 125 k. w.) directly connected, also oil burning equipment for boilers.

**Minn., Breckenridge**—City council has authorized purchase of supplies from following firms: Fort Wayne Electric Works, Beardsley, Chandler Manufacturing Co., Northwestern Electric Equipment Co. and Robinson, Cary & Sands Co.

**Minn., Luverne**—Contract awarded to Robinson, Carey, Sands & Co., for material for completion of the new power house, at \$1,250, f. o. b., Luverne.

**Minn., Mapleton**—Village will hold election on Jan. 26, between 9 a. m., and 5 p. m., to vote on installation of a municipal electric light system, to cost about \$12,000; G. N. Ackerman, clerk.

**\*Minn., Osseo**—On Jan. 12 city voted \$9,000 for electric light system. W. C. Buck, engineer, 4821 Fremont av. S., Minneapolis. Advertisement for bids later.

**Minn., Windom**—City council has authorized appropriation of \$25,000 for an electric light system.

**Wis., Chilton**—At special meeting resolution No. 17, was introduced and unanimously adopted whereby \$200, was appropriated to defray the necessary expense of completing a survey and estimate cost of building a street car line from Elkhart Lake to Chilton; A. L. Pfeffer, city clerk.

**\*Wis., Lancaster**—Ordinance passed granting Chicago Short Line right to construct street and interurban standard railway. John M. Stone, city clerk, Lancaster.

**Wis., Medford**—The Medford Electric Light & Power Co. plans erection of a power house and purchase of additional equipment to increase the service from 12 to 24 hours daily.

**Wis., Milwaukee**—City council votes to place 21 arc lamps in the 22d ward.

**Wis., Redgranite**—Waushara County Railroad Co., incorporated, capital \$25,000; proposes 8½-mile line from Redgranite to Poysippi, Richard Wendt, O. W. Strapp and A. L. Christoferson, incorporators.

**Wis., West Sweden**—The West Sweden Telephone Co. have voted to buy a carload of 5-inch top, 20-foot cedar poles, to replace old ones.

### BIDS WANTED.

**N. D., Grand Forks**—Bids received until 5 p. m., March 5, for extension of street lighting system, laying underground wires and installation of lamp posts in the extension of ornamental lighting system; plans by J. J. Smith, city engineer; check \$500; W. H. Alexander, county auditor; officially advertised in the Improvement Bulletin this week.

### CONTRACTS AWARDED.

**\*Mont., Three Forks**—Contract awarded to Montana Power Co. for installing the cluster lights on Main st. and maintaining same.

**Wis., Fond du Lac**—Contract awarded to H. L. Walicks, Fond du Lac, for electric light fixtures in circuit court rooms, etc., at \$278; other bidders were: Paul Walicks, at \$298; E. A. Maze, at \$324; Briggs Electric Co., \$467; B. Resimines, all of Fond du Lac, at \$250; Frank Barker, Oakfield, at \$446.

**\*Wis., Livingston**—Contract submitted to Henry Allen.

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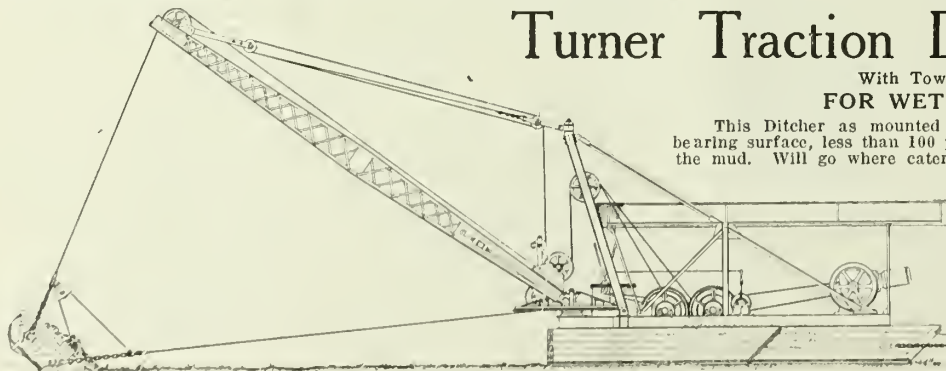
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president of village board, for lighting streets in village. F. C. Ludden, president and general manager of the Mineral Point Public Service Co., Nutting, consulting engineer.

**Wis., Oshkosh**—Contract awarded to Pearl S. Bizby for installation of lighting fixtures in the Longfellow school (Tungsten lamps).

## BUSINESS BUILDINGS

**Iowa, Brooklyn**—I. J. Ormiston may erect a modern brick building in the spring.

**Iowa, Centerville**—Fire destroyed the business block in central part of town; including Smoot & Thompson general furniture store.

**Iowa, Churden**—The Watt Dudley Mercantile Co. store burned, loss about \$32,000, total loss on the W. C. Perkins store; Carl Squires' restaurant also burned.

**Iowa, Davenport**—Building permit was issued to John Soler & Co., for erection of a \$12,000, 2-story brick and concrete office building, for the Standard Oil Co.

**Iowa, Eldora**—Work will begin about April 7, to raze the Jepsen and former Larson building, for erection of a new bank building, for First National Bank, 2-story, fireproof, modern throughout, steel fixtures and vaults and safety device.

**Iowa, Germania**—Veterinarian R. H. Schrecengost of Swea City will erect a veterinary hospital in the spring, 40x42, 2-story, modern throughout.

**Iowa, Iowa Falls**—Contract awarded to W. J. Zitterell of Webster City, Iowa, for new State Bank building; work started.

**Iowa, Keokuk**—Fire destroyed the general merchandise and building of Albert Feilder at Sandusky, loss about \$2,000; Mrs. Emory Wilson, owner.

**Iowa, Marshalltown**—Fire destroyed a portion of the business block, loss about \$100,000; J. Levin dry goods, store; loss \$45,000.

**Iowa, Vinton**—S. F. Parzybok will erect a modern business building, plumbing, baths, steam heat.

**Minn., Duluth**—Gus Barawinda will erect a modern store building in town of Payne, recently purchased by him from Duluth.

**Minn., Emmons**—Bids will be received for a brick and stone with basement bank building for the First National Bank of Emmons, Minn., plans by Architect Thorwald Thorson of Forest City, Minn., on file with architect, or at Builders, Exchange, Minneapolis; for further particulars address architect, Forest City; official advertisement in the Improvement Bulletin this week.

**Minn., Eveleth**—The Helps-Shea Hardware Co. will erect a new building, brick, 30x120; cost \$13,000; work to begin Feb. 1.

**Minn., Osakis**—Fire destroyed the following business buildings, C. E. Smith, general store, Broadland State Bank, two general stores and hardware store; loss about \$30,000.

**Minn., St. Cloud**—Following bids were received on the A. J. Daniels block; Carl Kropp, \$10,471; Ed. Hirt, \$10,553; A. S. Wahl, \$10,628; Fred Wahl, \$10,800; Jos. Marsolek, \$10,995; C. D. Hudson, \$11,022.

**Minn., Young America**—The Bongard Co-operative Co. will erect an addition to their building.

**Mont., Willow Creek**—Rask & Joseph will erect a store building in the spring, frame, 36x60.

**Neb., Albion**—Contract awarded to John O'Neill for new building to be used as a post office, 85x65, basement, modern, furnace heat.

**Neb., Arlington**—A new hardware store will be erected by Low Ward & Sons, in the spring.

**Neb., Arnold**—L. P. Rose will erect a modern business building in the spring.

**Neb., Holbrook**—The Standard Poland China Association are planning erection of a modern business building; W. O. Garrett and F. P. Robinson, building committee.

**Neb., Kearney**—A modern 2-story reinforced concrete business block will be erected by F. J. Keens, plans being prepared by Architect Bert Lake.

**Neb., Lincoln**—Fire damaged the A. M. David block about \$110,000, loss as follows: A. D. Benway Furniture Co., \$100,000, A. M. Davis, \$5,000, A. P. Apperson, \$5,000.

**N. D., Cando**—The Cando National Bank will build a 2-story 35-foot addition to their present building in the spring.

**N. D., Harvey**—Fire damaged the Guarantee Clothing Co.'s store about \$7,000, insured at \$4,000; building owned by the Harvey Meat & Live Stock Co.

**N. D., Hazelton**—The Hazelton Bank may erect a new building in the spring.

**N. D., Minot**—The Western Grocery Co. will erect a modern brick business building.

**N. D., Noonan**—Two new business buildings will be erected here, one by Baukel & Ronnie, brick, 2-story, 25x60, modern, Heath & Bird, contractors; J. J. Gits will erect the other, brick, 32x28, modern, spring work.

**S. D., Broadland**—Fire destroyed the greater portion of the business section; including the hotel, Broadland State Bank, two general stores and hardware store; loss about \$31,000; partly insured.

**S. D., Canova**—Fire destroyed a business portion of town, including: People's State Bank, drug store, barber shop, general store of Mr. Koepsali; loss about \$30,000.

**S. D., Huron**—Fire destroyed the following business buildings; C. E. Smith, general store, loss \$8,000; P. H. Graham, general store, loss \$5,000; Broadland State Bank, \$3,000; Mrs. Anna Goodman, \$3,500; John R. Johnson, hardware store, \$1,500, partly insured.

**S. D., Ravina**—Fire destroyed the following business buildings: the Andes State Bank, Johnson Bros., owners; Suiter Bros.' hardware store; Frank Kellison meat market; Paul Jaen, hardware store and Fred Shoop, barber shop; loss about \$16,000; insured at about \$12,000.

**Wis., Milwaukee**—Following banks will be erected in Wisconsin during 1915: German Bank of Sheboygan, Wis., Otto Foeste, cashier, cost about \$35,000 to \$50,000; Citizens' State Bank of Stanley, Wis., Imbert Roe, cashier, cost \$10,000; Citizens' National Bank, Grand Rapids, Wis., D. B. Philleo, cashier, cost \$75,000; no plans prepared for any as yet.

**Wis., Montello**—Interior of the Montello State Bank will be remodeled soon; new mahogany counters and green marble fixtures, new tile floor, in lobby, and main part of bank, will have cork floor, storage vault in basement.

**Wis., Neenah**—The Neenah State Bank will erect a new building, next summer.

**Wis., New London**—Fire damaged the hardware stock and store of the New London Hardware Co., about \$3,000, insured.

**Wis., New London**—Contractor Victor Thomas has begun work on foundation wall for a modern brick business building, 1-story and basement, 56x25.

**Wis., Oshkosh**—J. F. Dreger, architect, is ready for bids for the 2-story and basement furniture and undertaking establishment, for Wm. J. Glatz; cost \$25,000, 40x100, face brick, terra cotta and hollow tile construction.

**Wis., Watertown**—A modern ice house will be erected by Kohloff & Knispel, 100x100, 28 feet from foundation to eaves, construction under supervision of Louis C. Schlueter and Chas. Block, concrete foundation put in by Dan Ryan; cost about \$8,000.

## ELEVATORS

**Iowa, Fort Madison**—An elevator will be erected in the rear of the Krebill mill; Edward Krebill and Peter R. Krebill, owners.

**Neb., St. Michael**—H. T. Ingalls will erect an elevator soon.

**N. D., Aneta**—Fire destroyed the Martin Lee Elevator, insured.

**S. D., Williston**—A proposition is being discussed by members of the Commercial club and merchants for a potato warehouse.

## FIRE APPARATUS

**Minn., Little Falls**—Little Falls may buy a motor combination truck.

**Mont., Butte**—The ways and means committee presented a report recommending that the city advertise for bids for a service automobile; cost about \$4,000.

**Mont., Livingston**—City council has voted to ask for bids on an automobile combination chemical and hose truck.

**Neb., Alliance**—A project is being launched by the Alliance Fire Department for a swimming pool, cost about \$1,800; plans prepared by Herman Lund, architect; size of pool, 25x50; building, 37x66, tile, heating plant, lockers, etc; Fireman Hill, Pilkington, Lund and Leggett, committee.

**Wis., Mauston**—City council instructed city clerk to get prices on one hose cart; 500 feet hose; 100 feet garden with fire hose connection; 8 coats; one shut off nozzle; address all communications to Chief C. R. Barnes or city clerk.

**Wis., Pound**—Following officers were elected in newly in-



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Chicago—Heyworth Bldg.  
Boston—49 Federal Street.  
Cleveland—419-20 Citizens' Bldg.  
Duluth—310 W. Michigan St.  
Kansas City—909-10 N. Y. Life Bldg.





corporated town of Pound; Otto Koenig, president; R. J. Brooks, clerk, Philip Dwyer, supervisor.

**Wis., Racine**—Three bids were received on new automobile for Fire Marshal James Cape, as follows: Case Co., Mitchell-Lewis Motor Co. and L. P. C. Motor Co.

**Wis., Tomah**—Geo. Gondrezick was elected chief of fire department.

**Wis., Waukesha**—City contemplates purchase of a fire motor truck, pump and engine; address Wm. Powrie.

**Wis., West Bend**—Volunteer Fire Co. reelected Philip Schellinger as first assistant of fire department at Kohlsville.

#### BIDS WANTED.

**Minn., Anoka**—Bids received until 6 p. m., Jan. 25, for one motor driven hose chemical and ladder truck; plans at office of City Clerk N. P. Moberg, Anoka.

**Wis., Madison**—Bids will be received until Feb. 1, for an 80-horse power auto tractor for the fire department.

#### CONTRACTS AWARDED.

**Wis., Manitowoc**—Contract awarded to the South Bend Motor Truck Co., for furnishing fire department with a completely equipped combination chemical and hose truck, at \$3,200, for the north side station.

**Wis., Rhinelander**—Contract awarded to the Seagrave Co. of Columbus, Ohio, to furnish city with motor driven auto truck for fire department at \$5,650; Geo. C. Jewell, city controller.

### PARKS AND CEMETERIES

**Neb., Superior**—Contract awarded to Amberson Bros., for erection of the chapel building at the cemetery, to be built early in the spring, contract price, \$2,507.

**N. D., Devils Lake**—Bids received until Feb. 2, 2 p. m., for all material in construction of enclosure on Sully's Hill National Park; plans may be secured by addressing secretary of agriculture, Washington, D. C., or postmaster, Devils Lake, N. D.; Carl Vrooman, acting secretary of agriculture.

### NEW FIRMS INCORPORATED

**Iowa, Armstrong**—The Masonic association, \$10,000; S. C. Hays, Wm. Stuart, F. A. MacDonald.

**Iowa, Davenport**—Ryan Plumbing & Heating Co., \$25,000; J. J. Ryan, H. C. Kahl, J. Reed Lane.

**Minn., Farmington**—Hoppe Oardware & Implement Co., \$25,000; William G. Hoppe, Minnie H. Hoppe, Ernest M. Bemington.

**Minn., Grand Marais**—Lake Shore Telephone Co., \$50,000; F. E. Bell, M. G. Bell, C. H. Carhart and others.

**Minn., Minneapolis**—Reilly-Herz Auto Co., \$20,000; Chas. R. Reilly, Emery D. Best, Gregory H. Herz.

**Minn., Minneapolis**—Mace Iron Company, \$50,000; Russell M. Bennett, Louis W. Hill, C. A. Thompson.

**Minn., Minneapolis**—Perrine Stone Service Co., \$50,000; John J. Perrine, Wm. B. Smoot, Emmett B. Perrine.

**Minn., Minneapolis**—Todd Manufacturing Co., \$50,000, Frank Todd, Morgan C. Wood, Benjamin A. Wolfe.

**Minn., Virginia**—Rex Loading & Engineering Co., \$50,000; R. C. Pickering, William J. Archer and R. B. Emmons, all of Virginia.

**Mont., Great Falls**—J. E. Davis Decorating Co., \$20,000; J. E. Davis, John Hay, W. J. Fogerty.

### GARAGES AND BARNs

**Iowa, Bellevue**—Fire destroyed farm buildings on farm of Nick Bisenius valued at \$10,000; insured at \$4,500.

**Iowa, Clarion**—C. L. Speight may erect a modern building in the spring for a garage and implement business; about 50x132, basement and 1-story.

**Iowa, Dubuque**—Farm buildings were destroyed by fire on the Biesiens, premises; loss \$10,000, insured at \$4,500.

**Iowa, Greenfield**—R. E. Garrett will erect an up-to-date garage in the spring.

**Iowa, Grinnell**—Work has begun on erection of the Grinnell Motor Car garage; P. W. Sparks, contractor.

**Iowa, Spirit Lake**—Excavation begun for a 1-story, 40x60, garage for Geo. E. Wheeler; cost \$5,000; private plans; will build soon as weather permits.

**Mich., Detroit**—Bids on the new municipal garage were rejected, as being in excess of appropriation, figures turned over to architect for consideration.

**Minn., Gibbon**—Johnson & Johnson will erect a modern garage in the spring.

**Minn., Mankato**—The Mankato and Blue Earth County Fair Association will erect a large stock barn this year; Chas. T. Taylor, president.

**Minn., New Hartford**—A new modern basement barn will be erected by Frank Wolff in the spring.

**Minn., Rochester**—Plans will be completed about Feb. 15, for a modern garage for C. M. Judd; O. H. Round, architect, 202 Oppenheim building, St. Paul.

**Mont., Forsyth**—A new modern garage will be built here by Chas. B. Swalm; brick and concrete, 2-story, 50x110, modern heating, lighting and ventilating systems.

**Mont., Fromberg**—Fire destroyed the large livery stable of J. P. Madsen, total loss.

**Mont., Miles City**—Fire destroyed the Jordan livery stable, loss about \$8,000.

**Neb., McCook**—A large addition will be erected by Mr. Barnett on his W. B. st. garage.

**N. D., Powers Lake**—A corporation has been formed under name of the Howell Motor Co. and will build a modern garage.

**N. D., Ryder**—A number of garages will be erected here in the spring, one to be 50x100, cost about \$4,000; name withheld.

**S. D., Castlewood**—The large frame barn of John Saathoff burned.

**S. D., Lead**—Fire destroyed three barns; two belonging to John Wolzmut and one to F. B. Wilcox.

**Wis., Chippewa Falls**—Barn of Senator Edward Askley burned; loss about \$2,000; partly insured.

**Wis., De Pere**—John Leiterman will erect a barn in the spring at Glenmore.

**Wis., Janesville**—Fire destroyed a barn and tobacco shed on farm of Chas. Wright; loss \$5,000.

**Wis., Marinette**—Following will build barns, at Lake Noqueby, Thomas Clary, James Rrnabon, dairy barn.

**Wis., Swiss**—Chairman T. P. Kearns is preparing to erect a set of farm buildings in the early spring.

### DRAINAGE AND IRRIGATION

**Iowa, Mapleton**—Plans for straightening Maple river will be submitted soon by R. V. Fairchild, engineer.

**Iowa, Rockwell City**—Meeting Feb. 9, on report and survey for drainage district No. 14.

**Minn., Ada**—Report of viewers favors establishing judicial ditch 51; assessment amounts to \$166,000.

**Minn., Bemidji**—First hearing on ditches 34, 35, and 36, judicial, will be held Feb. 10; F. W. Rhoda, clerk court.

**Minn., St. Paul**—Decision to complete the Roseau river project was made by the state drainage board and legislature will be asked for \$60,000.

**Minn., Willmar**—Estimated cost of ditch 32 is \$80,000.

#### BIDS WANTED.

**Iowa, Garner**—Bids received until 1 p. m., Feb. 1, on labor and material for drain district 40; check 10 per cent; E. P. Hanson, auditor.

**Iowa, Eldora**—Two letting set for 12 m., Feb. 1: drainage district 52, 6 sections, 2,630 feet 16-inch tile, 100 feet 12-inch; about 6,800 feet of 10-inch; 2,100 feet 8-inch; about 2,000 feet 6-inch; 300 feet 5-inch; average haul ½ mile from Hubbard. Iowa; E. L. Chamberlain, engineer, Eldora; Calvin Boyman, auditor, Hardin county; drainage district 60, 12 sections, 1,500 feet 12-inch tile; 1,600 feet 10-inch; about 3,000 feet 8-inch about 2,000 feet 7-inch; 1,100 feet 6-inch; average haul ¾ mile from Robertson, Iowa; E. W. Edwards, engineer, Eldora.

**Iowa, Muscatine**—Bids for \$278,000 bonds will be received until Feb. 15, under Iowa drainage law, to furnish funds for No. 3, drainage improvement, Louisa and Muscatine counties.

**Minn., Anoka**—Bids in 11 a. m., Feb. 4, on ditch 54, estimated cost \$11,406; check 10 per cent; A. A. Caswell, auditor.

**Minn., Buffalo**—Bids received until 2 p. m., Feb. 16, for digging and construction, ditch 22, Wright county, main, two laterals, estimated cost \$2,049; check 10 per cent; John A. Berg, auditor.

**Minn., Fairmont**—Bids received until 2 p. m., Feb. 9, on judicial ditch 28, estimated cost \$38,674; H. C. Nolte, auditor; check 10 per cent.

**Minn., Olivia**—Bids in 10 a. m., Feb. 16, on county ditch 57, estimated cost \$13,120; check 10 per cent; J. L. Johnson, auditor.

**Minn., Roseau**—Bids received until 10 a. m., Jan. 29, for construction of judicial ditch 22, Beltrami and Roseau counties; estimated cost \$20,510, including highway and 20 miles



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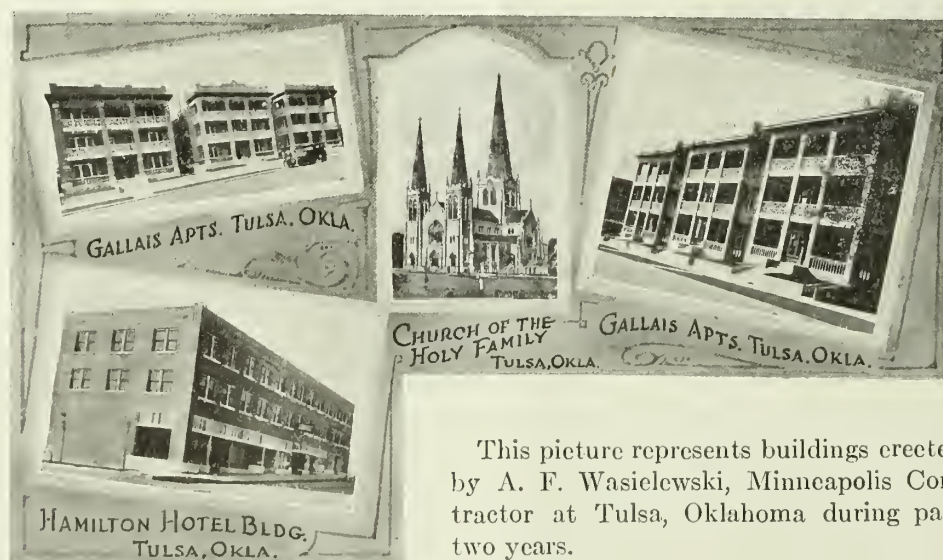
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creek cleaning out, average cut 4.8 feet; check 10 per cent; S. G. Bertilrud, auditor, Roseau.

**Minn., Thief River Falls**—Bids in 2 p. m., Feb. 2, on judicial ditch 40; check 10 per cent; T. P. Anderson, auditor.

**Minn., Thief River Falls**—Bids received until 2 p. m., Feb. 2, for the construction, complete, of highway bridge across judicial ditch No. 40; check for 10 per cent; T. P. Anderson, auditor, Pennington county.

**Minn., Windom**—Bids received until 1:30 p. m., Feb. 9, for construction of judicial ditch 12; 1,300 feet 6-inch tile; 3,500 feet 8-inch; 1,200 feet 10-inch; 3,700 feet 12-inch; 3,400 feet 15-inch; estimated cost \$3,400; check for 10 per cent; S. A. Brown, auditor, Cottonwood county.

**Wis., Clintonville**—Bids received till 2 p. m., Feb. 12, 1915, for construction of main ditches, Willow Valley drainage district, by O. R. Schwantes, clerk, Willow Valley drainage district, Clintonville, Wis., about 37,315 yards excavation; check for 5 per cent; plans at clerk's office and office of engineer, N. H. Smith, 268 Forest av., Oshkosh, Wis.

#### CONTRACTS AWARDED.

**Iowa, Williams**—Contract awarded to Jens Jensen of Williams, and National Sewer Pipe Co., Williams, for working material on three ditches.

**Wis., Bancroft**—Contract for draining marsh near Babcock, 1,000,000 yards excavation, let to John Corbett, So. Milwaukee; three dredges.

### BRIDGES

**Iowa, Marshalltown**—City Engineer W. B. Skogerson, City Hall, prepared plans for a viaduct over C. N. W. and M. St. L. railroad tracks, 1,159 feet long, 24 feet wide, double tracks; work to begin in the spring; reinforced concrete.

**Iowa, Muscatine**—County Engineer Ryan has recommended that new bridge be constructed over east branch of Wapsinonoc creek  $1\frac{1}{2}$  miles west of Liberty; that concrete culvert be constructed at Mad creek crossing north of Flat Iron Point, section C; also concrete culvert at Miller's residence, for year 1915.

**Iowa, Sioux City**—Plans for the standard box culverts and proposed reinforced concrete girder bridge over Perry Creek have been submitted to the city council; Fred Smith, city engineer.

**Minn., Caledonia**—On motion from town of Black Hammer for one-half of expense of building bridge in section 20, engineer was instructed to prepare plans and make survey for same.

**Minn., Crosby**—The Crosby Commercial club will make an effort to have a bridge erected across the Mississippi river, north of town.

**Minn., Duluth**—The Munger Improvement club are discussing plans for a bridge across Chester creek.

**Minn., Holyoke**—County board proposes to erect a bridge over Nemadji river.

**Neb., Omaha**—Boards of commissioners of Douglas and Saunders counties, acting jointly, have filed petition for a bridge over the North Platte river, about  $1\frac{1}{2}$  miles south of Yutan, Saunders county; steel bridge, cost about \$50,000; state aid bridge.

**Neb., Sutherland**—Town voted \$14,000 for new bridge across the South Platte river.

**N. D., Center**—A new steel bridge will be built in the spring; bids to be taken in spring; cost \$4,000.

**N. D., Grand Forks**—City engineer instructed to prepare plans and specifications for rebuilding of DeMers av. bridge, recently burned; W. H. Alexander, city auditor.

**N. D., Grand Forks**—Proposition is being discussed for a pontoon bridge in vicinity of Riverside park.

**S. D., DeSmet**—Contract awarded to the Minneapolis Steel & Machinery Co. for furnishing all galvanized steel culverts for ensuing year; Wm. M. Look, county auditor.

**S. D., Gary**—Motion made and carried that all bridges built for ensuing year be 20 feet wide; A. L. Larson, county auditor.

**Wash., Seattle**—An election will be held Feb. 16, to vote on \$829,500 bridge bonds.

**Wis., Racine**—A concrete bridge will be erected at the Campers' site; cost \$9,000; M. L. Torkelson, state engineer.

**Wis., Superior**—The city engineer will prepare plans for repairs to Bardon av. bridge.

**Wis., Superior**—Tentative plans have been prepared for a bridge or viaduct over railway tracks at 21st av. by E. B. Banks, city engineer, estimated cost \$89,000; construction to begin in the early summer.

**Wis., Westby**—A bridge will be erected here, cost \$1,000;

plans will mature in the spring; Ole Lunde, supervisor, R. F. D. No. 1, Westby, Washington township.

**Wyo., Sheridan**—Bids will be received until 10 a. m., Feb. 2, for erecting one steel bridge over Powder Creek, 20 miles north of Arvada; plans at office of County Clerk James J. Withrow; payments to be made, one-half on completion of work and balance on January 15, 1916.

#### BIDS WANTED.

**Iowa, Audubon**—Bids received until 1 p. m., Feb. 5, by board of supervisors of Audubon county, for culvert pipe at price per lineal foot, f. o. b. any station in county. Following is an approximate list of culvert pipe required: Twelve-inch, 500 feet corrugated pipe; 15-inch, 700 feet corrugated pipe; 18-inch, 1,600 feet corrugated pipe; 24-inch, 1,200 feet pipe; 30-inch, 100 feet; 36-inch, 600 feet; 42-inch, 100 feet; 48-inch, 200 feet. C. D. Forsbeck, county engineer. H. A. Northrup, county auditor.

**Iowa, Council Bluffs**—Bids received until 1 p. m., Feb. 4, for following material and supplies delivered f. o. b. any station in Pottawattamie county; 2,600 barrels of Portland cement; 1,200 tons of sand; 2,500 tons crushed stone; 7,500 lineal feet, circular culverts 12-inch to 48-inch diameter, (bids will be received on reinforced concrete pipe, boiler, iron and corrugated iron), 200,000 feet board measure Douglas fir bridge plank, 6,000 lineal feet piling; check 5 per cent; address county engineer's office, Court House, Council Bluffs, Iowa; J. D. Hannan, auditor.

**Iowa, Cresco**—Bids received until 9 a. m., Feb. 9, for 10 bridges, plans at office of county auditor; check 5 per cent; E. A. Hoopman, auditor, Howard county; also bids received 1 p. m., Feb. 10, for 3,000 lineal feet of corrugated culvert for 1915, net price per lineal foot f. o. b., diameters to be 12, 15, 18 and 24 inches.

**Iowa, Creston**—Bids will be received until 4 p. m., Feb. 3, for furnishing county, during 1915, following bridge materials: Cement, 2,000 barrels, maximum 3,000 barrels; sand, minimum 750 tons, maximum 1,500 tons; gravel, minimum, 1,000 tons, maximum 3,000 tons; reinforcing steel, minimum 3,600 pounds, maximum 72,000 pounds; corrugated pipe plans at office of County Auditor B. M. Breed, Union county, Creston. Theo. S. DeLay, county engineer.

**Iowa, Leon**—Bids received until 1 p. m., Feb. 2, for following bill: 3,000 pounds 40D special bridge spikes, flat heads, and diamond points, 200 pounds 6D nails; 200 pounds 16D nails, 2,000 pounds 26 gauge 30x9-inch galvanized iron sheets, etc.; prices f. o. b. Leon, not later than April 1; address H. L. Northrup, chairman, board of supervisors; bids taken by county auditor.

**Iowa, Osage**—Bids received until Feb. 16, 12 m., for reinforcement steel and plain I-beams, estimated quantity required about 180,000 pounds; check 5 per cent; A. M. Swanson, county auditor.

**Minn., Austin**—Bids will be received until 2 p. m., Feb. 5, at office of county auditor for following bridge material: More or less than 240,000 pounds of reinforcing bars in carload lots, sizes to be in following percentages:  $1\frac{1}{4}$ -inch, 23 per cent; 1-inch, 9 per cent;  $\frac{3}{4}$ -inch, 9 per cent;  $\frac{5}{8}$ -inch, 26 per cent;  $\frac{1}{2}$ -inch, 23 per cent; all bars to be square deformed and cut to length according to plans that will be furnished later; more than 3,000 barrels of cement, in carload lots; cement to be of any standard Portland cement complying with standard specifications of American Society of Testing Materials. Check for \$500. W. H. Goodsell, chairman of board. O. J. Simmons, county auditor.

**Minn., Bemidji**—County Auditor J. L. George has been instructed to advertise for bids on following bridges: Bridge across the Big Tamarac river, between sections 11 and 12, 154-30 county road No. 53; bridge across Schtley brook, between sections 11 and 14, 153-31; bridge across creek in section 26-150-30, county road No. 56; bridge across South Cormant river, section 24-150-30, county road No. 58; piling for bridge, state rural highway No. 9; A. E. Bako, chairman of board.

**Minn., Big Falls**—Bids received until Jan. 29, 10 a. m., for construction of a wooden extension bridge across south fork of Sturgeon river. Plans at office of county auditor, L. H. Slocum. Check for 10 per cent. W. M. Everts, engineer.

**Minn., Minneapolis**—Bids received until 11 a. m., Feb. 1, for repairs and painting of bridge No. 21, village of Hills and Dales, Hennepin county; check 5 per cent; address Al. P. Erickson, county auditor.

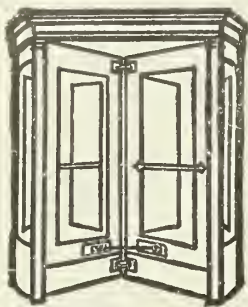
**Minn., Faribault**—Bids received until Feb. 1, 9 a. m., for improvement of bridge on 3d st. N., plans at office of County Recorder Ed. F. Kelly; check 5 per cent.

**Minn., Searles**—A new bridge will be erected on New Ulm-Madelia road.

**Minn., Shakopee**—County auditor was instructed to adver-



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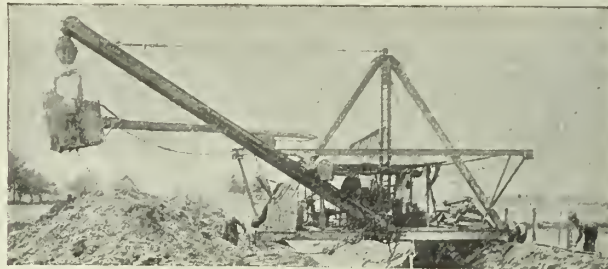
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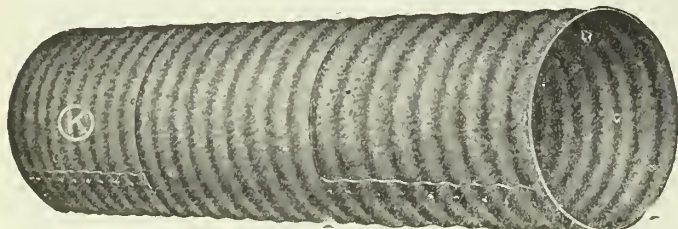
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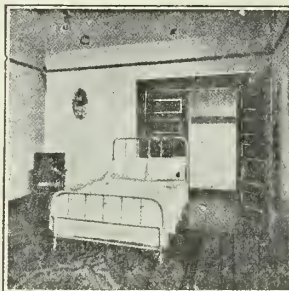
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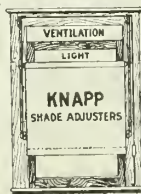
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tise for bids at 10 a. m., Mar. 9, for state bridge No. 1504, state road No. 4, town of Helena, Scott county.

**Minn., Thief River Falls**—Bids will be received until 2 p. m., Feb. 2, for constructing a highway bridge over judicial ditch No. 40, Pennington county.

**S. D., Rapid City**—Bids received until 9 a. m., March 9, for sale of \$50,000 Pennington county refunding bonds for bridges. Check 5 per cent; J. C. Hopkins, county auditor.

**Wis., Glenwood City**—Bids will be received until 1 p. m., Feb. 5, for two bridges, known as the Ellis and Stevens bridges, plans at office of town clerk, P. H. Ryan, chairman; N. J. Mehleis, clerk.

**Wis., Milwaukee**—Bids will be received until about Feb. 15, for steel trestle, 2-span concrete, approaches on C. & N. W. tracks, on lake front, about 750 feet by the board of park commissioners; Frank P. Shumacher, secretary; plans by Architect Alfred C. Clas, Colby-Abbott building.

#### CONTRACTS AWARDED.

**Iowa, Waterloo**—Contract awarded to Lauer Culvert Co., of Dubuque, Iowa, for pipe culverts; 14 large bridges are to be built the coming year; bids to be asked for soon.

**Kans., Anthony**—Contracts for \$16,000 worth of concrete bridges and concrete roadways were let by the county commissioners of Harper county recently.

**Wash., Tacoma**—Contract awarded to McCreary & Willard of Spokane for steel for the inter-county river bridge at Buckley, at \$3,526.

### WATER WORKS

**Iowa, Linn Grove**—An election will be held soon to vote on water works system.

**Iowa, Mason City**—City plans 16,000 feet water mains construction.

**Iowa, Pella**—At special election \$10,000 bonds were voted for a water works system.

**Iowa, Sioux City**—A special election has been held by city council to vote on having bids advertised for 100 water valves, 1,700 tons on cast iron pipe and one deep well pump at the new Lowell st. pumping station.

**Iowa, Sioux Rapids**—A special election will be held Feb. 10, to vote \$9,000 bonds for a municipal water works system, in town of Linn Grove.

**Iowa, Spencer**—A new pumping engine and about 1,000 feet of 4-inch mains may be installed by city; Frank Keenan, water superintendent.

**Iowa, Springfield**—C. F. Butler of water company is securing funds for extension of water works system.

**Kans., Manhattan**—Plans in progress by city engineers, Worley & Black of Kansas City, Mo., for water works purification plant; cost \$50,000; C. F. Gist, city clerk.

**Kans., Mankato**—Plans in progress for water works improvements, Harper & Stiles, engineers, Grand av. Temple building, Kansas City, Mo.; address city clerk, Mankato, Kans.

**Kans., Osawatimie**—Bonds have been sold for a water purification plant and water works extension, Worley & Black, engineers, Reliance building, Kansas City, Mo.; J. W. Allard, city clerk.

**Kans., Pratt**—Preliminary plans are in progress for a water works and light plant addition, cost \$50,000; E. T. Archer & Co., engineers, 407 New England building, Kansas City, Mo., M. P. Jones, city clerk, Pratt.

**Minn., Ely**—Moved by Alderman James and supported by Alderman Knutson, that Consulting Engineer W. C. Buck submit plans and specifications for a centrifugal pump and water meter, and advertise bids for same.

**Minn., Glencoe**—Resolved by council that city water works be improved, enlarged and extended; Peter Hatz, clerk.

**Minn., Osseo**—Bonds in sum of \$11,000 were voted for a water works system. W. C. Buck, engineer, 921 Fremont av. S., Minneapolis.

**Minn., Preston**—A new centrifugal pump will be installed by city, cost \$1,200; O. A. Watts, superintendent.

**Mont., Clyde Park**—Bids will probably be called for soon on water works system, cost about \$18,000; address city clerk.

**Mont., Harlowtown**—Harlowtown water bonds were purchased by the Minnesota Trust Co. of Minneapolis, Minn., at premium of \$250.

**Mont., Helena**—Board of underwriters recommend enlargement of the Woolstein reservoir, which would make capacity of 6,000,000 gallons.

**Mont., Plentywood**—Reported that movement has been started for purpose of organizing a company for taking over and enlarging the local water plant; address city clerk.

**Neb., Holbrook**—City is agitating question of a water works system.

**Neb., Valentine**—City voted \$9,000 bonds for water works system.

**Okla., Cordell**—Reported bids will be opened Jan. 28, for water works system and contract awarded; \$75,000 bond issue voted.

**Okla., Cordell**—City plans to spend about \$75,000 for improvements of water system; T. B. Wolfard, superintendent.

**Okla., Dustin**—Citizens plan to spend about \$9,000 in extensions of the municipal water works system.

**S. D., Bruce**—Proposition is being discussed for construction of a municipal water works system.

**S. D., Summit**—Village of Summit has voted \$8,000 bonds for water works system.

**Wis., Manitowoc**—A plan to widen and deepen the mother well of the municipal water works plant, has been determined by the council's utility committee.

**Wis., New Richmond**—Bonds of \$12,000 have been sold for a water works system.

**Wis., Woodstock**—A large corporation located in Chicago, will build a distilled pure water ice and refrigeration plant at this place; cost about \$40,000; plans being drawn and work to be completed about April 15.

**Wyo., Moorcroft**—City has sold its water bonds to Denver parties.

**Wyo., Sheridan**—A proposition to convert DeSmet Lake into a large reservoir for the reclamation of lands is being considered.

#### BIDS WANTED.

**Minn., Duluth**—Bids received until 10 a. m., Feb. 5, for furnishing f. o. b. (New Duluth) 132 feet more or less of 20-inch cast iron pipe, class "A," American Waterworks Association; check 10 per cent; plans at office of Commissioner of Public Works R. Murchison; C. S. Palmer, clerk.

**Neb., Eagle**—Bids received until Feb. 8, 3 p. m., for all tools and labor, materials and equipment for water works system; check 5 per cent; plans at office of Village Clerk Geo. Reitter, or with Fairbanks, Morse & Co., engineers, Omaha.

**S. D., Lemmon**—Bids will be called for, about April to May 1, for extension of water mains, cost about \$11,500; bonds of about \$26,00, probably will be voted; C. A. Ingalls, city auditor.

#### CONTRACTS AWARDED.

**Minn., Chisholm**—Contract awarded to Kimball & Fay, local civil engineers, to construct the Gilbert filtration plant for \$30,000; firm is completing plans, day work.

**Minn., Duluth**—Contract for extension of water mains awarded as follows: Norquist & Berg for 6-inch water main and 4-inch gas mains, in 11th st., also for 6-inch water and 4-inch gas mains in 8th av. E.

**Minn., Hibbing**—Contract awarded to the American Bridge Co. for erection of new water tower, steel, 300,000-gallon capacity; cost \$22,000.

**Okla., Keifer**—Contract awarded to the Sutherland Construction Co., Commerce building, Kansas City, Mo., for water works system, at \$60,000; C. H. Stratten, clerk, W. B. Rollins & Co., engineers, 439 Midland building, Kansas City, Mo.

**Texas, Cooper**—Contract awarded to A. A. Snell of Houston, Texas, for drilling of well to produce 150,000 gallons every 24 hours for the Citizens' Water Co., Cooper.

### SEWER WORK

**Iowa, Boone**—City Engineer Kastberg ordered to look into proposition of a sewage disposal plant; address city clerk.

**Iowa, Burlington**—Hearing Feb. 4 on a combined storm water and sanitary sewer in Gnahn st. with branches in adjacent streets and alleys, to be of vitrified pipe with mortar joints or cement concrete pipe with mortar joints, with necessary catch basins, manholes, lampholes and connections, pipe to be of 8, 10, 15, 18, 24 and 40-inch sizes; Robt. Kroppach, city clerk.

**Iowa, Nevada**—Proposed to put in sewers this year to the amount of about \$7,000; Sam Steigerwalt, city engineer.

**Kans., Aurora**—Bond issue will be required to put through sewage disposal plant proposition; Worley & Black, engineers, Reliance building, Kansas City, Mo.

**Kans., Eldorado**—Plans in progress for sewage disposal plant; Worley & Black, engineers, Reliance building, Kansas City, Mo.; address city clerk.

**\*Minn., Minneapolis**—Contract to Streator Clay Manufacturing Co., Streator, Ill., for all sewer pipe to be used in Minneapolis.

**Minn., Sandstone**—There were eighteen bidders on the sewer





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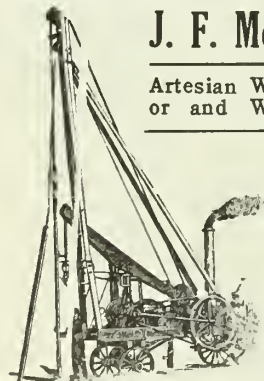
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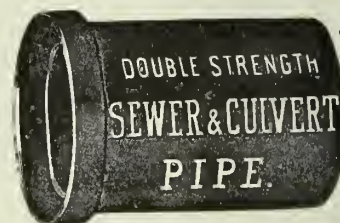
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**Minn., Wabasha**—Sewers costing \$1,200 are proposed for 1915. Address city clerk.

**Minn., Wadena**—Plans and specifications, prepared by Engineer Larson for proposed sewer system in Wadena, have been under consideration by council. Address city clerk.

**Mo., Caruthersville**—Election Jan. 26 for bonds for sewer system and water works, \$60,000; F. L. Wilcox, consulting engineer, Syndicate Trust building, St. Louis.

**\*Mont., Roundup**—Surveys for sewers being made by I. C. Craft, under C. A. Renshaw, city engineer.

**Neb., Omaha**—City commission asked to build sewer to replace present open sewer from 36th and Sprague sts. to 42d and Boyd sts.; cost over \$50,000.

**\*Neb., Papillion**—Papillion is discussing sewer question; address city clerk.

**Okla., Drumright**—Bonds have been voted and engineer will probably be voted at once for installation of sewer system. Address city clerk.

**Ore., Portland**—Two bids were submitted for the 5,000 barrels of cement wanted by the city, the Washington Portland Cement Co. and the Santa Cruz Portland Cement Co. each bidding \$2.30 per barrel, with a reduction of 10c for each empty sack returned.

**Ore., Portland**—Reported lowest bid submitted for Willow st. extension of E. Stark st. trunk sewer was by Wm. Lind at \$173,083; only bid for reconstruction of E. Alder st. or Sunnyside trunk sewer was by Giebisch & Joplin, Rothchild building, at \$23,969.

**Sask., Kamsack**—Work to start at once on branch sewers, estimated to cost \$35,000; 2,280 feet of 10x12-inch pipe, 1,433 feet of 10x12-inch, 2,640 feet of 8-inch, 1,685 feet of 8-inch, 1,140 feet of 8-inch, 1,406 feet of 8-inch, 1,020 feet of 8-inch, 875 feet of 8-inch; to be laid in various streets. Address city clerk.

**Wis., Eau Claire**—City is contemplating 10,000 feet sewer work, 10, 12 and 15-inch vitrified pipe; definite action in the spring; J. C. Fennessey, city clerk.

**\*Wis., Oshkosh**—Board of public works directed to advertise for sewers in 18th st., from Ohio to Iowa st., and in Iowa from 17th to 18th; address city clerk.

**Wis., Superior**—Contract to Edward Johnson for construction of new outlet for the Winter st. main sewer, at \$10,346; other bidders were: Pastoret Construction Co., \$11,099; Riches & Son., \$11,755; Russell Construction Co., \$12,475.

#### BIDS WANTED.

**Iowa, Corning**—Bids received by F. W. Yeadon, auditor of Adams county until noon, Feb. 1, for four cars culvert pipe, f. o. b.; also, for construction of one or more concrete culverts; check for 5 per cent.

**Iowa, Creston**—Bids received by B. M. Breed, auditor of Union county, until 4 p. m., Feb. 2, for corrugated culvert pipe; Theo. S. DeLay, county engineer.

**Kan., Eldorado**—Bids received by B. F. Allenbach, city clerk, until 6 p. m., Feb. 16, for sewage purification plant. Plans by Worley & Black, Kansas City, Mo.

**\*Minn., Hibbing**—Bids received by D. D. Haley, village recorder, until 7:30 p. m., Jan. 26, for the following: 2,000 lineal feet 18-inch salt glazed, first class vitrified sewer pipe, 850 feet 15-inch, 2,800 feet 12-inch, 3,300 feet 10-inch, 1,350 feet 8-inch, 400 feet 6-inch, 40 pcs. 12-inch with 6-inch branches, 100 pcs. 6-inch with ¼ curves, 100 pcs. 6-inch with elbows, 150 pcs. 10-inch with 6-inch Y branches; bids received as a lump sum, also price per foot and price per pc. on material. (Note—It is suggested that the date given above may be meant for Feb. 26.)

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, city purchasing agent, until 3 p. m., Feb. 1, for 1,300,000 common sewer brick. Check for \$400; also, at the same time, for vitrified clay segment sewer blocks for season of 1915. Check for \$100.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, city purchasing agent, until 3 p. m., Feb. 1, for approximately 350,000 vitrified paving blocks or 500,000 vitrified paving bricks for sewer construction during season of 1915; check for \$250.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, pur-

chasing agent, until 10 a. m., Feb. 8, for construction of the Front and McKenty sewer system; check for 10 per cent.

**Mo., Springfield**—Bids to be awarded Feb. 2 for sewer work in district No. 35; Feb. 16 for district No. 30, and early in March for district No. 36; in all about six miles of sewers. Address city clerk.

**Wis., Manitowoc**—Sealed bids received until Feb. 1, by Arthur Reichert, city clerk, Manitowoc, for the construction of domestic and surface drainage sewers, approximately 1,859 lineal feet of 36-inch; 1,115 feet of 30-inch; 74 feet of 12-inch, 65 feet of 10-inch, 3¼ feet of 8-inch and 11 manholes; also 893 feet of 12-inch; 245 feet of 8-inch; 75 feet of 10-inch, 3 manholes, 5 corner basins and 10 inlets; check for 5 per cent.

**Wis., Merrill**—Bids received by Wm. J. Kyes, city clerk, until 4 p. m., Feb. 9, for sewers in 2d sewer district; check for 3 per cent.

**\*Wis., Milwaukee**—Bids to be asked for soon on construction of about 5 miles of brick and concrete sewers; whole work will embrace about 35 miles intercepting sewers, and with disposal plant has been estimated to cost from \$10,000,000 to \$12,000,000; T. C. Hatton, chief engineer, sewerage commission, city hall, for information.

**Wis., Milwaukee**—Bids received by T. C. Hatton, chief engineer public sewerage commission, until Feb. 24, for construction of Milwaukee river intercepting sewers to cost from \$350,000 to \$400,000.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**Iowa, Boone**—Hearing March 1 on a large amount of paving and guttering, paving of concrete and paving of either brick, sheet asphalt, asphaltic concrete and concrete, to be placed on a 5-inch base of Portland cement; Otto Hile, city clerk.

**Iowa, Cedar Rapids**—Paving program under consideration provides for about five miles of paving; total cost estimated at about \$175,000; bids will be asked on vitrified re-pressed brick, with four to six inches of concrete and an asphalt filler; asphaltic concrete, and also vertical fibre brick laid flat; a large amount of curb work is also contemplated. Address city clerk.

**Iowa, Clinton**—City council is considering five blocks of vitrified brick paving on 4th st. from 5th to 10th st., and also five alleys of concrete paving, 5,000 square yards; J. J. Thorne, city engineer.

**Iowa, Council Bluffs**—County board considering paving of South av. just outside city limits of Council Bluffs at an approximate cost of \$5,000; permanent extension of this roadway is contemplated; J. D. Hannan, county clerk.

**Iowa, Le Mars**—E. S. Townsend, city clerk, writes that bids will not be opened until about the 1st to the 10th of March on paving of Main st. S.

**Iowa, Mason City**—Resolution passed for paving more than 80 blocks and reported that asphalt will constitute the larger part of the work; address city clerk.

**Iowa, Muscatine**—County Engineer Ryan recommends road improvements for 1915 as follows: concrete paving at Moscow to be extended ½-mile; bill on River-to-River road be reduced to grade; that sections A, B, C, and H, on Muscatine and Blue Grass roads, be brought to established grade and cross section and that section A be paved with concrete or gravel from city limits to Smett's corner; that 3½ miles from W. Liberty SE. be brought to proper grade and cross section; that sand ridge north of John Houseman's residence be graded, clayed and graveled; and the same improvement be made on several other roads; and that highways not covered by tractor outfit last year be ditched and crowned so that they may be properly dragged.

**Iowa, Perry**—Council has authorized call for bids on Jan. 25 for the paving of W. Willis av.; 8 kinds of material being considered; Chas. Wilson, city engineer.

**Iowa, West Liberty**—City council has decided to pave portions of 3d, Calhoun, Spencer, 4th, 5th, 6th and 7th, Clay and Prairie sts., the first three almost entirely; approximately 40,000 square yards paving and 22,000 feet curbing in the plan; figures will be considered on concrete, sheet asphalt, brick, asphaltic concrete and concrete fibre brick; business districts to be paved 51 feet wide and other portions 29 feet; address city clerk.

**Minn., Duluth**—Unless a formal protest is filed within 60 days, work will be started in the spring on the paving of W. 3d st. from Vernon st. to 54th av., the city commissioners having passed a resolution initiating the movement; the cost will be \$175,000; John Wilson, city engineer.



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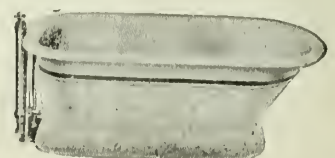


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**Minn., New Ulm**—County board decided to advertise for bids for grading and graveling to be done on state roads Nos. 4, 5, 6 and 7, that are wholly in the 4th commissioner's district; Louis G. Vogel, auditor of Brown county.

**Minn., Red Wing**—City will pave 14,000 square yards with creosote blocks this year, day labor. A. E. Rhame, city engineer.

**Minn., Red Wing**—Following are the bids on paving material at recent opening: Creosoted blocks—Republic Creosoting Co., \$1.25 per square yard; Chicago Creosoting Co., \$1.30 per square yard; lowest bid shows increase of 10c per square yard over price paid last year. Cement—K. R. Seiler, Chicago, AA cement, \$1.28 net per barrel; McCoy Lumber Co., Atlas cement, \$1.31 net per barrel; G. Lillyblad, N. W. States cement, \$1.31 net per barrel; Universal Portland Co., cement, \$1.33 net per barrel; increase in cost over 1914, prices, 5c per barrel. Paving tar pitch—Barret Manufacturing Co., 200 barrels coal tar paving pitch, (120,000 pounds) at 55c per 100 pounds, a decrease of 5c per 100 over prices last year.

**Minn., Rochester**—Curb and gutter work for 1915 is proposed to the amount of \$10,000. S. C. Utton, city engineer.

**Minn., Shakopee**—Construction work to be done in Scott county in 1915, it is estimated, will be to the amount of \$20,000; Donald Childs, district engineer.

**Minn., St. Paul**—Council has ordered that Shields av. be boulevarded and curbed; cost will be 49c per front foot; August Hohenstein, purchasing agent.

**Minn., St. Paul**—Bids received by commissioners of Ramsey county, Oliver Tong, secretary, board of control, until Feb. 4, for road rock; cost \$80,000.

**Minn., St. Paul**—Hearing Feb. 9, on paving of Raymond av., University av. to Carter av. with creosoted wood blocks, estimated to cost \$76,000; hearing Feb. 15 on paving of Dayton av. from Victoria st. to Lexington av. at an estimated cost of \$30,000; August Hohenstein, purchasing agent.

**Minn., Two Harbors**—Five state road jobs have been laid out for construction during 1915, as follows: No. 1, 3½ miles long, 10 feet wide, crushed rock macadam, appropriation of \$4,200; No. 2, 3,500 cubic yards graveling swamps and rocky portions of road, appropriation of \$2,100; No. 3, about 4 miles long, clearing, grubbing and grading, and wood culverts, appropriation of \$5,000; No. 4, 11 miles of clearing right-of-way, ditching, girder work and wood culverts, appropriation of \$5,500; No. 5, a miscellaneous class of work to cover small items of construction along entire state road, appropriation of \$1,500. John P. Paulson, county auditor of Lake county.

**Minn., Winona**—L. P. Wolff, engineer, has been instructed to prepare working plans for proposed new Wisconsin approach to the high wagon bridge across the Mississippi river here, the approach to be constructed of concrete; also instructed to report whether present bridge is strong enough to be paved with creosoted blocks; Ross Bragg, city clerk.

**Minn., Winona**—In view of the attack on the Elwell law, and its threatened repeal, D. B. Pritchard, of Winona, has asked the Minnesota highway commission for final approval of the program which includes work on 107 miles of state roads in the county at a cost of \$575,000; 16 miles have already been built.

**Mont., Sidney**—A complete line of road machinery has been ordered by the commissioners of Richland county, comprising one 60 h. p. caterpillar traction engine, one Austin mammoth grader, one Standard elevating grader and one Aurora reversible grader; A. J. Lacy, county engineer.

**Neb., Auburn**—Paving of Court House av. expected to be taken up in the spring; bonds sold; address city clerk.

**Neb., Omaha**—Estimated by Commissioner McGovern of the public improvement department that 18 miles of street paving will be done this year, costing about \$1,100,000.

**Neb., Papillion**—Citizens agitating paving of Main st., from the railroad track to school house corner; address city clerk.

**N. D., Fargo**—F. L. Anders, city engineer, writes that the city will do a large amount of paving this year, work to begin about April 15; Broadway will be paved between the N. P. and G. N. tracks, and bids will be received upon brick, bitulithic and creosote block paving for 16,000 yards; 1st av. N., east of 5th st. will be paved with one of four kinds of paving, to be selected by the property owners—brick, creosote block, bitulithic and Portland cement concrete, in all about 3,000 yards; will be about 35,000 yards of new paving in the 1st, 2d and 3d paving districts, and bids will be received on four classes of paving for this work.

**S. D., Lead**—City is considering half a mile of concrete and macadam paving; also, bids will probably be called for in February on 7,400 lineal feet on concrete sidewalks; J. W. Stoner, city auditor.

**Wash., Kelso**—County commissioners have in contemplation construction of road from Kelso to Illwaco at a cost of about \$150,000.

**Wash., Seattle**—Funds being raised for proposed moving sidewalk on either Seneca or University st., from 2d to 4th av.; cost will be \$15,000 for installation and \$2,000 per year for maintenance; address city clerk.

**Wash., Seattle**—Reported board of public works will award contracts for paving 14th av. and grading and curbing 44th av. S., some time in February; cost \$48,000.

**Wis., Beloit**—Resolution before council proposes that majority of property owners on each street shall decide kind of paving they desire.

**Wis., Fond du Lac**—Hearing Jan. 30 on paying with Portland cement and combined curb and gutter on Johnson st. between Park av. and the Fond du Lac river; also, at the same time, on grading the roadway and paving with Portland cement, under 5-year guarantee, and combined curb and gutter of Western av. between Main st. and Brooks st.; also, at same time, on grading and constructing cement pavement, under 5-year guarantee, with combined curb and gutter, on Superior st., between Western av. and Military st., and on Western av., from Brooke st. to west branch of Fond du Lac river; J. S. McCullough, chairman, board of public works.

**Wis., Marinette**—Hearing Feb. 3, on improvement of Carney av. with two concrete roadways 23 feet wide with 25-foot parking between, each roadway to have concrete curb and gutter on either side; A. H. Holquist, chairman, board public works.

**Wis., Watertown**—Hearing Feb. 2, on paving and curbing part of 8th st.; Frank S. Weber, city clerk.

**Wis., Superior**—Plans and specifications being prepared in city engineer's office for approach to the Bardon av. bridge, to be of wood; board of public works will advertise for bids.

#### BIDS WANTED.

**Ill., Rockford**—Bids will be received by Edwin Main, city engineer, about April 1, on brick paving as follows. 6,500 square yards on Melrose st., estimated to cost \$18,000, and 5,900 square yards on Clinton st., estimated to cost about \$16,100; there is 5,270 feet concrete curb and gutter in connection with the Melrose st. job and 4,690 feet curb and gutter with the Clinton st. paving.

**Iowa, Belle Plaine**—Bids received by C. E. Greenlee, city clerk, until 3 p. m., Feb. 16, for the construction of 32,500 square yards of cement or asphaltic concrete pavement, and 23,000 feet of cement curb; check on local bank for \$1,000; private plans for \$5.00. Iowa Engineering Co., engineers, Clinton, Iowa.

**Iowa, Carroll**—Bids received by J. A. Dougherty, city clerk, until 8 p. m., Feb. 9, for approximately 33,000 square yards paving; G. C. Belter, city engineer; deposit of \$5 for plans and specifications.

**Iowa, Cresco**—Bids received by E. A. Hoopman, auditor Howard county, until 1 p. m., Feb. 10, for furnishing about 5,000 barrels of Portland cement during the season of 1915; of this amount, 1,200 barrels to be at Cresco, 1,200 barrels at Elma, 400 at Bonair, 800 at Lime Springs, 600 at Chester, 600 at Riceville and 200 at Le Roy, Minn.

**Iowa, Leon**—Bids received by R. E. McLaughlin, auditor, Decatur county, until 3 p. m., Feb. 2, for corrugated pipe as follows: 200 feet 12-inch pipe, 300 feet 15-inch, 250 feet 18-inch, 100 feet 21-inch, 150 feet 24-inch, 50 feet 30-inch, lengths to be specified as ordered, and all to comply with the requirements of the state highway commission; all pipe bought above specified amount to be paid for at same price, and deliveries to be made at any shipping point in the county; purchases last year amounted to \$9,000; bidder must state if price includes connecting bands, and if not at what price they will be furnished; bond by successful bidder in sum of \$1,000.

**Iowa, Leon**—Bids received by R. E. McLaughlin, auditor of Decatur county, until 3 p. m., Feb. 3, for Portland cement to be used by the county and within hauling distance from the following towns: Pleasanton, Davis City, Lamoni, Decatur, Grand River, Leon, Van Wert, Weldon and Garden Grove; last year the county used 2,500 sacks; bidder must make price per barrel from yard, also price if taken from track, brand of cement, and town or towns for which bid is made. H. L. Northrop is chairman of the board.

**Iowa, Sigourney**—Bids received by J. C. Kennel, auditor Keokuk county, until 2 p. m., Feb. 12, for furnishing cement of standard quality at any station in the county as required, probably 2,000 barrels required.

**Iowa, Sigourney**—Bids received by J. C. Kennel, auditor of Keokuk county, until 2 p. m., Feb. 12, for 40,000 pounds square twisted reinforcing bars, f. o. b. Sigourney, containing 4,000 pounds ¾-inch bars, equally divided between 16, 20 and 24-foot lengths; and 36,000 pounds 1½-inch bars, equally divided in same lengths as above; also 36,000 pounds square twisted reinforcing bars, f. o. b. Ollie, containing 33,000 pounds, ½-inch bars, equally divided as before named, and 3,000 pounds ¾-inch bars, same lengths, steel to comply with Iowa Commission standard; also, 170 tons concrete gravel, f. o. b. any



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station on Rock Island road between Kinross and Gibson, same amount between Keota and Atwood, same amount on St. Louis road between Butler and Richland, Iowa.

**Iowa, Sigourney**—Bids received by J. C. Kennel, auditor, Keokuk county until 2 p. m., Feb. 12, for corrugated culverts as follows: 20 pieces 15 inches by 20 feet and 2 pieces 18 by 20, f. o. b. S. English, Iowa; 20 pieces 15 by 20 and 2 pieces 18 by 20 f. o. b. C. M. & St. P. Ry., Sigourney, Iowa; 20 pieces, 15 by 20 and 2 pieces 18 by 20, f. o. b. Ollie, Iowa.

**Kan., Chanute**—New bids to be received by the Chanute & Tioga Good Roads commission, until Feb. 6, for the construction of one mile of rock road; two bids were submitted previously by Perry Taylor and Jacob Byers, both of Chanute, Kans., and rejected.

**Minn., Duluth**—Bids received by C. S. Palmer, city clerk, until 10 a. m., Feb. 5, for furnishing, f. o. b., Duluth, one 5-ton tandem roller, steam or gasoline, with power steering gear; check for 10 per cent.

**Minn., St. Paul**—Bids received by August Hohenstein, city purchasing agent, until 10 a. m., Feb. 8, for grading and improvement of five different jobs; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug Hohenstein, purchasing agent, until 10 a. m., Feb. 8, for five gross of street sweeping brooms; check for 10 per cent.

**S. D., Sioux Falls**—Bids received by Walter C. Leyse, city auditor, until Feb. 1, for paving Minnesota av., 3d to 4th sts.

**Texas, McKinney**—Bids received in February by Chas. Schults, city engineer, on 28,000 square yards bituminous paving on 5-inch gravel base, and also 18,867 lineal feet of 2-inch curb and gutter; approximate cost \$54,926.

**Wis., Marshfield**—Bids will soon be asked for on 9 blocks of paving, probably concrete; John Seubert, city clerk.

**Wis., Superior**—Board of public works has been instructed to advertise for bids for paving Tower av. from 1st to 3d sts.; address city clerk.

**Wis., Superior**—Bids received by W. R. Russell, chairman, board public works, until 1 p. m., Feb. 5, for improvement of Tower av., from N. 3d to N. 1st st., paving to be of reinforced concrete, brick, sandstone blocks, asphaltic concrete, sheet asphalt and creosoted blocks, or a bituminous macadam or concrete, to be kept in good repair for five years.

#### CONTRACTS AWARDED.

**Iowa, Dubuque**—Contract to Chas. Sitterly for a quantity of permanent sidewalk at 9c per square foot.

**Iowa, Dubuque**—Contract to Wm. Raven, Colfax, Wis., for the 2 mile approach east of the Burlington bridge to the tracks on the road between Dubuque and Platteville, Wis.; to be 20 feet wide at the top.

**Iowa, Manchester**—Contract to Wm. Jewell, city, for a large amount of curb and gutter work; the M. Ford Paving Co., Cedar Rapids, which got the paving contract, will have 10,000 square yards asphaltic concrete.

**Wis., Hurley**—Contract to Hicks & Barber, Vulcan, Wis., for building new road from Beechwood to Gogebic county line at \$31,050.

#### TENEMENT HOUSE COMPETITION.

(Continued from page 8.)

the minimum required by the laws of the state of California governing tenement houses.

"On the larger property the owner requires that each house shall be for the purpose of occupancy by one family only, and shall be a detached dwelling; on the smaller property each type of house shall be occupied by only one family, but there may be four such families under one roof; that is, not to exceed four houses may be built under one roof.

"This owner requires that the houses on the two properties shall be of four types, as follows.

"Type (1). Any combination of types (2), (3) or (4) under one roof.

"Type (2). One room at least 10 feet by 12 feet, equals 120 square feet.

"One room at least 7 by 12½ feet, equals 90 square feet.

"One room containing bath tub, lavatory and water closet.

"One room for kitchen, containing gas range, sink with drainboards and shelving.

"Type (3). One room at least 19 feet by 12 feet, equals 120 square feet.

"One room at least 7 feet by 12½ feet, equals 90 square feet.

"One room at least 7 by 12½ feet, equals 90 square feet.

"One room containing bath tub, lavatory and water closet.

"One room for kitchen, containing gas range, sink with drain board and shelving.

"One room containing screen porch with one laundry tub.

"Type (4). One room at least 10 feet by 12 feet, equals 120 square feet.

"One room at least 10 feet by 12 feet, equals 120 square feet.

"One room at least 7 feet by 12½ feet, equals 90 square feet.

"One room at least 7 feet by 12½ feet, equals 90 square feet.

"One room containing bath tub, lavatory and water closet.

"One room for kitchen, containing gas range, sink with drainboards and shelving.

"One room containing screen porch with one laundry tub.

"It would be desirable, but not necessary, that a screen porch be provided in type (2) houses, and that all screen porches be large enough to be used for sleeping purposes.

"Of these various types of houses, this owner has found by experience that not more than thirty (30%) per cent of the total number of houses on either property should be of type (2); nor that more than fifty (50%) per cent of the total number of houses on either property shall be of type (3); nor that more than twenty (20%) per cent of the total number of houses on either property shall be of type (4).

"The housing commission of the city of Los Angeles, through the generosity of the persons and clubs whose names follow: Frances Wills, Friday Morning club; City club, Dr. Chas. C. Browning; Mrs. John Law, Geo. A. Damon, Mrs. Flora A. Radford, Thomas Haverty, Dr. Elbert Wing, John Wooten, city planning committee, Dr. Dana Bartlett, George R. Bergstrom, are enabled to offer the following prizes:

"First prize, \$50 cash.

"Second prize, \$25 cash.

"Third prize, \$15 cash.

"Fourth prize, \$10 cash.

"Fifth prize, first honorable mention.

"Sixth prize, second honorable mention.

"Seventh Prize, third honorable mention.

"The awards will be made by a jury composed of two members of the Housing Commission of the City of Los Angeles and an architect. The jury will make the awards within thirty days after the competition is closed. The jury reserves the right to make awards only in such case as in their opinion the designs are of sufficient merit to receive same.

"After the awards are made by the jury, the Housing Commission reserves the right to place any or all drawings submitted on public exhibition for a period of not to exceed six months after the awards are made, and it is understood and agreed that the drawings to which prizes are awarded will become the property of the Housing Commission, to remain with them for permanent public exhibition. At the end of the six months' exhibition time, drawings, to which have not been awarded prizes, may be obtained by the designers at the offices of the Housing Commission.

"All drawings are to be securely packed flat to prevent breaking and delivered to the offices of the Housing Commission in the Los Angeles City Hall. All packages are to be packed from observation and shall have no distinguishing mark thereon that in any way would identify the sender thereof. The packages are to be marked on the outside: 'Los Angeles Housing Commission, City Hall, Los Angeles City, Prize Drawings; Competition No. 1.'

"In a separate envelope, in no way attached to the package, the designer is to deliver to the Housing Commission a letter containing only the 'nom-de-plume' adopted by him, his correct name and address. Envelope containing this letter is to be sealed and is to be addressed same as the package, and shall have no other distinguishing mark thereon.

"Any method of marking or delivering the drawings and specifications to the housing commission that would in any way identify the sender or designer thereof to the housing commission before the awards are made will be sufficient ground for rejecting entirely the drawings and specifications.

"All competition will close at 12 noon on the 11th day of March, 1915, and all drawings must be delivered to the office of the Housing Commission on or before that time."

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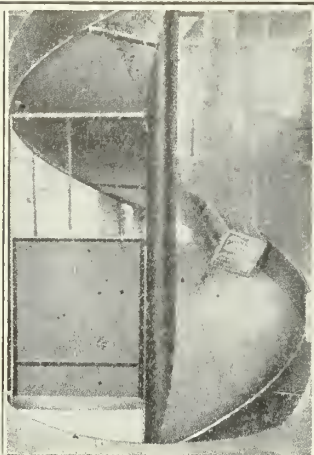
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Then take off your coat and go to it.

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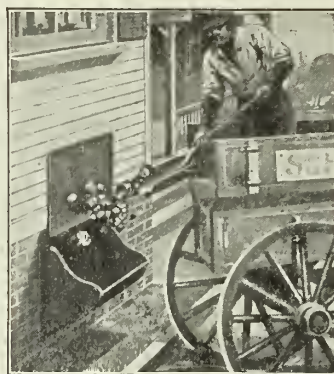
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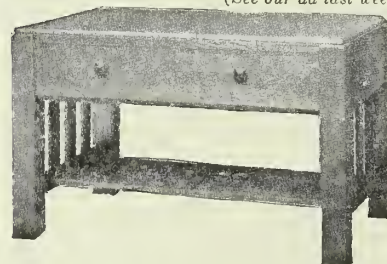
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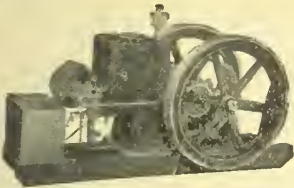
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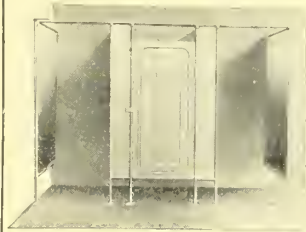
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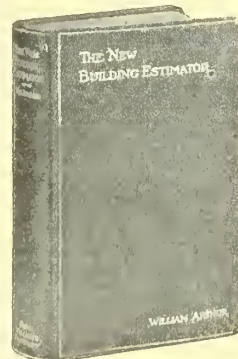
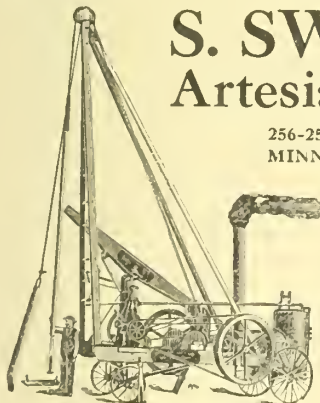
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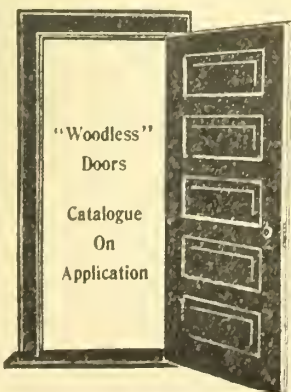
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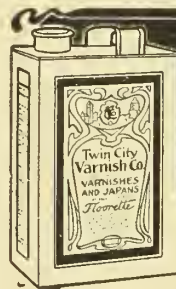
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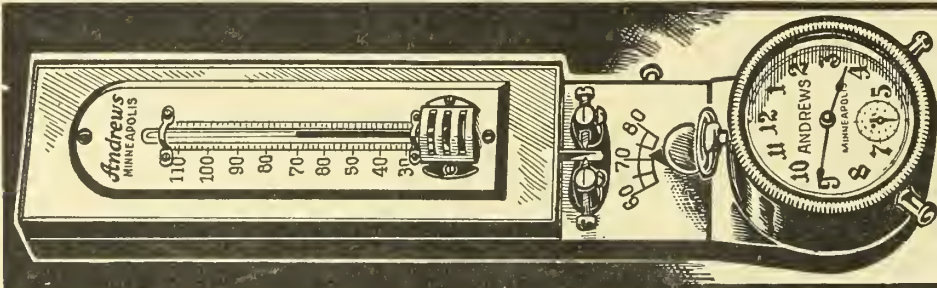
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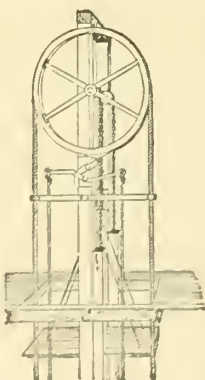
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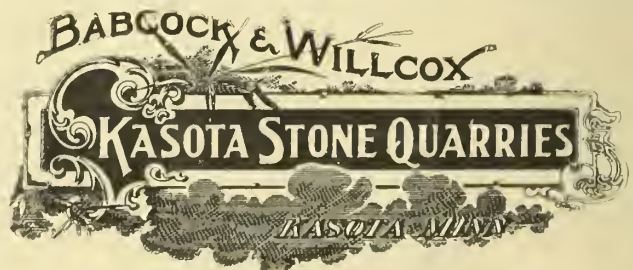
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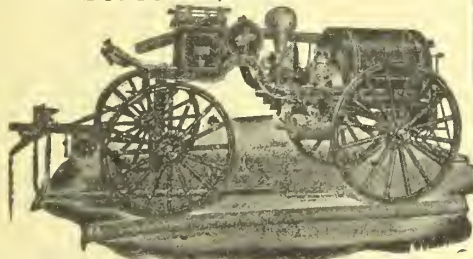
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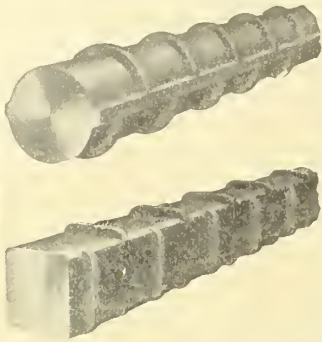
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., February 6, 1915.

Number 10

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Boone Brick, Tile & Paving Co., Boone, Ia.....	40	Krieger-Jamar Co., Duluth.....	43	Red Wing Sewer Pipe Co., Red Wing, Minn.....	36
Bovey Furnace Works, Waterloo, Ia.....	43	La Crosse Steel Roofing Co., La Crosse.....	30	Ricketts Mineral Paint Works, Milwaukee.....	40
Builders' Iron Works Co., St. Paul.....	26	Lagerquist, Gust., Minneapolis.....	30	Ross-Gould, St. Louis.....	42
Bragstad Concrete Machinery Co., Canton, S. D.....	28	Landers-Morrison Christensen Co., Minneapolis	1	Sauk Rapids Granite Co., Sauk Rapids, Minn.....	40
Canston Steel Ceiling Co., Minneapolis.....	22	Lansing Co., Lansing, Mich.....	19	Scott Graft Lumber Co., Duluth, Minn.....	34
Carney's Cement Works (Carney's Cement).....	1	Lehigh Sewer Pipe & Tile Co., Ft. Dodge, Ia.....	26	Seribner-Libby Co., St. Paul.....	34
Carr-Cullen Co., Minneapolis.....	6	Lewis A. Larsen, St. Paul, Minn.....	12	Selden Roofing & Mfg. Co., Minneapolis.....	30
Cement Tile Machinery Co., Waterloo, Ia.....	27	Lee & Hoff Mfg. Co., St. Paul.....	1	Shakopee Cement Lime Mfg. Co., St. Paul.....	24
Chain Belt Co., Milwaukee, Wis.....	32	*Loshie Paper Co., Minneapolis.....	34	W. W. Shepard, Minneapolis, Minn.....	33
Chaska Brick & Tile Co., Chaska.....	22	Lillyblad, Gust., Red Wing.....	38	Shevlin-Carpenter Lumber Co., Minneapolis.....	38
Clausen, Oscar, Engineering Co., St. Paul.....	12	Lott & Co., K. F., Minneapolis and St. Paul.....	28	Sioux City Brick & Tile Co., Sioux City, Ia.....	24
Clinton Bridge Works, Clinton, Ia.....	22	Majestic Furnace & Foundry Co., Minneapolis.....	42	Speakes Lime & Cement Co., Superior, Wis.....	38
Contractors Machinery Co., Keokuk, Ia.....	9	Mantorville Stone Co., Mantorville, Minn.....	40	Standard Salt & Cement Co., Duluth.....	1
Corrugated Bar Co., St. Paul.....	2	Mason City Brick & Tile Co., Mason City, Ia.....	22	M. B. Stone, Minneapolis.....	26
Crane Co., Minneapolis.....	38	Mason City Sand & Gravel Co., Mason City, Ia.....	34	St. Paul Foundry Co., St. Paul.....	26
Crane & Ordway Co., St. Paul.....	83	McCarthy, J. F., Minneapolis.....	38	St. Paul Lime & Cement Co., St. Paul.....	1
Crown Iron Works Co., Minneapolis.....	44	Mechanical Specialty Co., St. Paul, Minn.....	34	St. Paul Roofing, Cornice & Ornament Co., St. Paul	14
Roy Curtis, Duluth, Minn.....	12	Mertes Machinery Co., Milwaukee, Wis.....	12	Sterling Electric Co., Minneapolis.....	36
Davenport Machine & Fndry Co., Davenport, Ia.....	6	Midway Ornamental Iron Works, St. Paul.....	24	I. Stephenson Co., Wells, Mich.....	6
Decker Hardware Co., St. Paul.....	20	*Milwaukee Concrete Mixer Co., Milwaukee, Wis	16	S. Swenson Artesian Well Co., Minneapolis.....	43
Des Moines Bridge & Iron Works, Des Moines.....	26	Minneapolis Blue Printing Co.....	13	*H. C. Thomas & Bro., La Crosse, Wis.....	18
Des Moines Structural Steel Works, Des Moines.....	2	Minneapolis Electric Equipment Co.....	36	Thorp Fireproof Door Co., Minneapolis.....	36
Diamond Labor Agency, Chicago, Ill.....	12	Minneapolis Steel & Machinery Co., Minneapolis	20	*Turner, C. A. P., Minneapolis.....	32
Dickinson Fire & Pr. Brick Co., Dickinson, N. D.....	14	Minnesota Art Glass Co., Minneapolis.....	30	G. A. Turner, Minneapolis, Minn.....	33
Drake Marble & Tile Co., St. Paul.....	36	Minnesota Fama Stonewood Co., Minneapolis.....	26	Twin City Brick Co., St. Paul-Minneapolis.....	24
Duluth Corrugating & Roofing Co., Duluth.....	43	Minnesota Manufacturers Association.....	44	Twin City Tank, Silo & Specialty Co., Minneap-	12
Dunlap Cut Stone Co., Duluth.....	43	Minnesota Roofing & Cornice Works, St. Paul.....	30	poli, Minn.....	12
Dunlop-Moore Co., Duluth.....	43	Minnesota Weatherproof Calking & Glazing Co.,	42	Twin City Tile & Marble Co., Minneapolis.....	22
Edward Edinger Co., Cedar Rapids, Ia.....	36	Minneapolis.....	42	Twin City Varnish Co., St. Paul.....	41
*Elker Electric Co., Minneapolis, Minn.....	2	The Monarch Company, St. Paul, Minn.....	38	Union Fibre Co., Winona, Minn.....	18
Enterprise Iron Works, Albert Lea, Minn.....	20	W. K. Morison & Co., Minneapolis.....	6	*United Iron Works Co., Springfield, Mo.....	16
*Excelsior Brick Company, Menomonee, Wis.....	36	Rufus P. Morton, Princeton, Minn.....	14	*Universal Portland Cement Co., Minneapolis.....	11
*Farnham Printing & Stationery Co., Minneapolis	11	*Mortar Mixer Corporation, Iowa City, Iowa.....	42	Van Kannel Revolving Door Co., St. Paul.....	34
Flint Brick Co., Des Moines, Ia.....	22	National Fireproofing Co., Minneapolis-Chicago	24	Voggeatherer Co., E. J., Dubuque, Ia.....	34
Fowler & Pay, Mankato-Minneapolis.....	34	National Mfg. & Supply Co., Minneapolis.....	38	*Warner Hardware Co., Minneapolis.....	4
*Gallon Iron Works & Mfg. Co., Minneapolis.....	11	New Ulm Stone Co., New Ulm, Minn.....	38	Waterloo Cement Machy Corp., Waterloo, Ia.....	26
Wm. Galloway Co., Waterloo, Ia.....	25	Northern Insulating Co., St. Paul, Minn.....	1	*Waterous Engine Co., St. Paul.....	1
Gardner Hardware Co., Minneapolis.....	6	North Star Varnish Co., Minneapolis.....	14	David White Company, Milwaukee, Wis.....	2
*General Western Material Co., Waterloo, Iowa	24	Northwestern Bedding Co., St. Paul, Minn.....	34	Widell Co., Mankato, Minn.....	10
*Gibson Mfg. Co., Waterloo, Iowa.....	26	N. W. Building Material Exhibit, Minneapolis.....	12	Wie Land & Lumber Co., Hermannville, Mich.....	1
M. J. Grady Fixture Mfg., Minneapolis.....	31	Northwestern Concrete Steel Co., Minneapolis.....	20	Wolf, L. P., St. Paul.....	24
Gray, Fred L. Co., Minneapolis.....	16	Northwestern Fireproofing Co., Minneapolis.....	22	Ellis Woolman, Minneapolis, Minn.....	20
Griffin & Boehme, St. Paul.....	34	Northwestern Fixture & Cabinet Co., Minneapolis.....	34	Youngstown Steel & Iron Co., Youngstown, O.....	20
Hankinson & Beatty Co., Sioux City, Ia.....	30				

Advs. marked \* appear every other week.

Advs. marked † appear in the 1st issue of the month.

Advs. marked ‡ not in this issue.



# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

## ARCHITECTURAL MODELING.

Hydraulic Press Brick Co., Minneapolis, Minn.  
A. F. Lott & Co., Mpls. and St. Paul, Minn.

## ARCHITECTS' SUPPLIES.

Minneapolis Blue Print Co., Mpls., Minn.  
ASBESTOS AND MAGNESIA PRODUCTS.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.  
W. S. Nott Company, Minneapolis, Minn.

## ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.  
S. Swenson Artesian Well Co., Minneapolis, Minn.

## BANKS.

Northwestern National Bk., Mpls., Minn.

## BANK AND STORE FIXTURES.

H. W. Johns-Manville Co., Minneapolis  
Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

## BOILERS.

Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
Mechanical Specialty Co., Minneapolis, Minn.

## BONDS-SURF.

Hood & Matschke Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.

## BRASS GOODS.

National Mfg. & Supply Co., Mpls., Minn.

## BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Boone Brick, Tile & Paving Co., Boone, Ia.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Excelsior Brick Co., Menomonie, Wis.  
Flint Brick Co., Des Moines, Ia.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hebron Fire & Pressed Brick Co., Hebron, N. D.  
Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Lehigh Sewer Pipe & Tile Co., Fort Dodge, Iowa  
Mason City Brick & Tile Co., Mason City, Ia.  
Rufus P. Morton, Princeton, Minn.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.  
Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Sioux City Brick & Tile Works, Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

## BRIDGES.

American Bridge Co., Minneapolis, Minn.  
Clinton Bridge Works, Clinton, Ia.  
Corrugated Bar Co., St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.  
H. B. Jones, Security Bank, Minneapolis  
G. E. Ingersoll & Co., St. Paul, Minn.

## BUCKETS-CONTRACTORS.

Baxter Sash & Door Co., Duluth, Minn.  
Blesanz Stone Co., Winona, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graft Lumber Co., Duluth, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Palme & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
G. A. Turner, Minneapolis, Minn.

## CALKING PASTE.

Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.

## CEMENT.

Atlas Portland Cement Co., Minneapolis  
Carney's Cement Works, Mankato, Minn.  
Fowler & Pav., Mpls. and Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
N. W. States Portland Cement Co., Mason City, Iowa  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speakes Lime & Cement Co., Superior, Wis.  
Shevlin-Carpenter Lumber Co., Minneapolis  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Universal Portland Cement Co., Minneapolis

## CELLS, STEEL.

Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co., St. Paul, Minn.

## CEILING, STEEL.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Canton Steel Ceiling Co., Minneapolis, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis  
H. C. Thomas & Bro., La Crosse, Wis.

## CEMENT FILLER.

Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.

## CEMENT SALT & CEMENT CO.

Standard Salt & Cement Co., Duluth, Minn.

## CEMENT CHUTES.

American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

## COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.

## CONCRETE CONSTRUCTION.

Avery Steel & Iron Co., Minneapolis  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.  
CONTRACTORS' LEVELS AND SUPPLIES  
David White Co., Milwaukee, Wis.

## CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.  
Badger Concrete Mixer Co., Milwaukee, Wis.  
Praegstad Concrete Mach. Co., Canton, S. D.  
Cement Tile Machinery Co., Waterloo, Ia.  
Chain Belt Co., Milwaukee, Wis.  
Contractors Machinery Co., Keokuk, Iowa  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
The Lansing Co., Minneapolis, Minn.  
N. W. Concrete Steel Co., Minneapolis.  
N. W. Steel & Iron Works, Eau Claire, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.  
Waterloo Cement Machinery Co., Waterloo, Iowa  
Ellis Woolman, Minneapolis, Minn.

## CONCRETE REINFORCING BARS.

Avery Steel & Iron Co., Minneapolis  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

## CORNICES.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

## CORRUGATED IRON, ETC.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Avery Steel & Iron Co., Minneapolis  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.  
Berger Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

## CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.  
Merets Machinery Co., Milwaukee, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Ellis Woolman, Minneapolis, Minn.  
Berger Mfg. Co., Minneapolis, Minn.  
Blesanz Stone Co., Winona, Minn.  
Galion Iron Works, Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.

## CRUSHED STONE.

Fowler & Pav., Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Wildell Co., Mankato, Minn.

## DEADENING MATERIAL.

Cement Tile Machinery Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

## DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

## DITCHING MACHINES.

Bay City Dredge Works, Bay City, Mich.  
United Iron Works, Springfield, Mo.

## DREDGES.

Bay City Dredge Works, Bay City, Mich.

## ELECTRICAL ENGINEERING.

Beck Electrical Construction Company, Minneapolis, Minn.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

## ELECTRIC MOTORS AND SUPPLIES.

Beck Electrical Construction Company, Minneapolis, Minn.  
Elker Electric Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

## MINNEAPOLIS ELECTRIC EQUIPMENT CO.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

## STERLING ELECTRIC CO.

Sterling Electric Co., Minneapolis, Minn.

## ELECTRIC SPECIALTIES.

Elker Electric Co., Minneapolis, Minn.

## ELEVATORS AND ENCLOSURES.

Kimball Bros. Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.  
Frank A. Pigeon, Minneapolis, Minn.

## ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

## ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.  
Lewis A. Larsen, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

## EXCAVATORS.

Bay City Dredge Works, Bay City, Mich.

## FIRE ESCAPES.

Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

## FIRE HYDRANTS.

Waterous Engine Works Co., St. Paul, Minn.

## FIREPROOF DOORS.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

## THORP FIREPROOF DOOR CO.

Thorp Fireproof Door Co., Minneapolis, Minn.

## FLUE LINING.

Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Lime Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

## FIRE PROTECTION APPARATUS.

Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
FIREPROOFING DOORS AND SHUTTERS  
Haakinson & Beatty Co., Sioux City, Iowa  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

## FLOORING.

American Torgoment Flooring Co., Minneapolis, Minn.  
Minnesota Transfer, Minn.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Pama Stonewood Co., Minneapolis  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graft Lumber Co., Duluth, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.

## FURNACES.

Bovee Furnace Works, Waterloo, Iowa

## GIBSON MFG. CO.

Gibson Mfg. Co., Waterloo, Iowa

## CORRUGATED BAR CO.

Corrugated Bar Co., St. Paul, Minn.

## GAS AND ELECTRICAL FIXTURES.

Jerde & Hendrickson, Minneapolis, Minn.

Mpls. Electric Equipment Co., Mpls., Minn.

Sterling Electric Co., Minneapolis, Minn.

## GLASS.

American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.

## PITTSBURGH PLATE GLASS CO.

Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

## GRAVITY CARRIER.

Minnesota Manufacturers' Association, North St. Paul, Minn.

## HARDWARE TRIMMINGS.

Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

## HEAT REGULATORS.

Andrews Heating Co., Minneapolis, Minn.

## HEATING AND VENTILATING.

Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

## HOISTS.

H. W. Johns-Manville Co., Minneapolis  
Koehring Machine Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## HOSE.

Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Waterous Engine Works Co., St. Paul, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can be found by referring to the Alphabetical List of Advertisers

## INSULATING MATERIAL.

Haakinson & Beatty Co....Sioux City, Iowa  
Hydraulic Press Brick Co....Minneapolis, Minn.  
H. W. Johns-Manville Co....Minneapolis, Minn.  
Northern Insulating Co....St. Paul, Minn.  
W. S. Nott Company....Minneapolis, Minn.  
Standard Salt & Cement Co....Duluth, Minn.  
Union Fibre Co....Winona, Minn.

## INSURANCE.

Fred L. Gray Co....Minneapolis, Minn.  
Hood & Matschke....Minneapolis, Minn.  
W. B. Joyce Co....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co....Minneapolis, Minn.  
Avery Steel & Iron Co....Minneapolis, Minn.  
Clinton Bridge Works....Clinton, Ia.  
Crown Iron Works....Minneapolis, Minn.  
Davenport Machine & Foundry Co....Davenport, Ia.  
Des Moines Bridge & Iron Co....Des Moines, Iowa  
Des Moines Structural Steel Works....Des Moines, Iowa  
Haakinson & Beatty Co....Sioux City, Iowa  
Inland Steel Co....St. Paul, Minn.  
Minneapolis Steel & Mach. Co....Mpls., Minn.  
N. W. Concrete Steel Co....Minneapolis, Minn.  
St. Paul Foundry Co....St. Paul, Minn.  
E. J. Voggenreiter Co....Dubuque, Ia.  
Youngstown Iron & Steel Co....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co....Minneapolis, Minn.  
Avery Steel & Iron Co....Minneapolis, Minn.  
Crown Iron Works Co....Minneapolis, Minn.  
Davenport Machine & Foundry Co....Davenport, Ia.  
Des Moines Bridge & Iron Co....Des Moines, Iowa  
Haakinson & Beatty Co....Sioux City, Iowa  
Minneapolis Steel & Mach. Co....Mpls., Minn.  
Northwestern Concrete Steel Co....St. Paul, Minn.  
St. Paul Foundry Co....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co....Chicago, Ill.  
General Western Material Co....Waterloo, Ia.  
Hydraulic Press Brick Co....Minneapolis, Minn.  
Landers-Morrison-Christensen Co....Minneapolis, Minn.  
Gust Lillyblad....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co....St. Paul, Minn.  
Speakes Lime & Cement Co....Superior, Wis.  
Shevlin-Carpenter Lumber Co....Minneapolis, Minn.  
St. Paul Lime & Cement Co....St. Paul, Minn.  
Standard Salt & Cement Co....Duluth, Minn.  
The Northwestern Lime Co....St. Paul, Minn.

## LIME.

General Western Material Co....Waterloo, Ia.  
Hydraulic Press Brick Co....Minneapolis, Minn.  
Landers-Morrison-Christensen Co....Minneapolis, Minn.  
Gust Lillyblad....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co....St. Paul, Minn.  
Speakes Lime & Cement Co....Superior, Wis.  
Shevlin-Carpenter Lumber Co....Minneapolis, Minn.  
St. Paul Lime & Cement Co....St. Paul, Minn.  
Standard Salt & Cement Co....Duluth, Minn.  
The Northwestern Lime Co....St. Paul, Minn.

## MANTLES-GRATES.

Drake Marble & Tile Co....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co....Duluth, Minn.  
Haakinson & Beatty Co....Sioux City, Iowa  
N. W. Marble & Tile Co....Minneapolis, Minn.  
Peerless Marble & Tile Co....Minneapolis, Minn.  
Twin City Tile & Marble Co....Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co....Duluth, Minn.  
Haakinson & Beatty Co....Sioux City, Iowa  
N. W. Marble & Tile Co....Minneapolis, Minn.  
Peerless Marble & Tile Co....Minneapolis, Minn.  
Twin City Tile & Marble Co....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co....La Crosse, Wis.  
Berger Mfg. Co....Minneapolis, Minn.  
Haakinson & Beatty Co....Sioux City, Iowa  
W. S. Nott Company....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co....Minneapolis, Minn.  
Badger Steel Roofing & Corrugating Co....La Crosse, Wis.  
Berger Mfg. Co....Minneapolis, Minn.  
Corrugated Bar Co....St. Paul, Minn.  
Des Moines Bridge & Iron Co....Des Moines, Iowa  
General Western Material Co....Waterloo, Ia.  
Haakinson & Beatty Co....Sioux City, Iowa  
Hydraulic Press Brick Co....Minneapolis, Minn.  
Johnson, Jackson & Corning Co....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co....Minneapolis, Minn.  
St. Paul Lime & Cement Co....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co....Duluth, Minn.  
Osgood-Blodgett Mfg. Co....St. Paul, Minn.  
Scott-Graft Lumber Co....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation....Iowa City, Iowa  
Standard Salt & Cement Co....Duluth, Minn.

## MUNICIPAL CASTINGS.

Davenport Mach. & Pdy. Co....Davenport, Ia.  
Farnham Printing & Sta. Co....Mpls., Minn.

## OFFICE FURNITURE.

American Bridge Co....Minneapolis, Minn.  
Avery Steel & Iron Co....Minneapolis, Minn.  
Builders Iron Works Co....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co....Minneapolis, Minn.  
Davenport Machine & Foundry Co....Davenport, Ia.  
Des Moines Bridge & Iron Co....Des Moines, Iowa  
Haakinson & Beatty Co....Sioux City, Iowa  
Midway Ornamental Iron Works....St. Paul, Minn.  
Minneapolis Steel & Mach. Co....Mpls., Minn.  
St. Paul Foundry Co....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co....Minneapolis, Minn.  
Hydraulic Press Brick Co....Minneapolis, Minn.  
H. W. Johns-Manville Co....Minneapolis, Minn.  
Kicketson Mineral Paint Works....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co....Minneapolis, Minn.  
Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co....New York, N. Y.  
American Cast Iron Pipe Co....Minneapolis, Minn.  
PIPE AND BOILER COVERING.  
H. W. Johns-Manville Co....Minneapolis, Minn.  
Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company....Minneapolis, Minn.

## PLASTER-WALL.

General Western Material Co....Waterloo, Ia.  
Hydraulic Press Brick Co....Minneapolis, Minn.  
H. W. Johns-Manville Co....Minneapolis, Minn.  
Milwaukee, Wis.  
Plymouth Gypsum Co....Fort Dodge, Ia.  
Shakopee Cement Lime Co....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co....Minneapolis, Minn.  
St. Paul Lime & Cement Co....St. Paul, Minn.  
Standard Salt & Cement Co....Duluth, Minn.

## PLASTERING-ORNAMENTAL.

Monarch Co....St. Paul, Minn.  
Roy Curtis....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co....Minneapolis, Minn.  
Monarch Co....St. Paul, Minn.  
K. F. Lott & Co....Mpls. and St. Paul, Minn.

## PLASTIC ORNAMENTS.

Farnham Printing Co....Minneapolis, Minn.

## PRINTING.

American Luxfer Prism Co....Chicago, Ill.  
Crown Iron Works Co....Minneapolis, Minn.  
PLUMBING AND HEATING JOBBERS.  
POWER PLANTS.  
National Mfg. & Supply Co....Mpls., Minn.  
REVOLVING DOORS.  
Van Kannel Revolving Door Co....St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works....Minneapolis, Minn.

## ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme....St. Paul, Minn.  
H. W. Johns-Manville Co....Minneapolis, Minn.  
Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co....Duluth, Minn.  
Minnesota Roofing & Cornice Works....St. Paul, Minn.  
Northwestern Lime Co....St. Paul, Minn.  
Scribner-Libby Co....St. Paul, Minn.  
W. S. Nott Company....Minneapolis, Minn.  
Selden Roofing & Manufacturing Co....Minneapolis, Minn.

## ROOFING-METAL.

Badger Steel Roofing & Corrugating Co....La Crosse, Wis.  
Berger Mfg. Co....Minneapolis, Minn.  
Duluth Corrugating & Roofing Co....Duluth, Minn.  
Gardner Hardware Co....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co....Minneapolis, Minn.  
W. S. Nott Company....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornamental Co....St. Paul, Minn.  
N. W. Roofing, Cornice & Stamping Works....Minneapolis, Minn.  
H. C. Thomas & Bro....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co....La Crosse, Wis.  
Barrett Mfg. Co....New York, N. Y.  
Biesanz Stone Co....Winona, Minn.  
Corrugated Bar Co....St. Paul, Minn.  
General Western Material Co....Waterloo, Ia.  
Hydraulic Press Brick Co....Minneapolis, Minn.  
John Leslie Paper Co....Minneapolis, Minn.  
H. W. Johns-Manville Co....Minneapolis, Minn.  
Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company....Minneapolis, Minn.  
Shevlin-Carpenter Lumber Co....Minneapolis, Minn.  
Standard Salt & Cement Co....Duluth, Minn.

## ROOFING AND SIDING-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co....La Crosse, Wis.  
Berger Mfg. Co....Minneapolis, Minn.  
Gardner Hardware Co....Minneapolis, Minn.  
Inland Steel Co....St. Paul, Minn.  
H. W. Johns-Manville Co....Minneapolis, Minn.

## SAND AND GRAVEL.

Mason City Sand & Gravel Co....Mason City, Ia.

## SHINGLES-RUBBER.

W. S. Nott Company....Minneapolis, Minn.  
Standard Salt & Cement Co....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co....Minneapolis, Minn.  
Inland Steel Co....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co....Winona, Minn.  
General Western Material Co....Waterloo, Ia.  
Standard Salt & Cement Co....Duluth, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co....Duluth, Minn.  
Carr-Cullen Co....Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co....St. Paul, Minn.  
Scott-Graft Lumber Co....Duluth, Minn.  
Shevlin-Carpenter Lbr. Co....Minneapolis, Minn.

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co....Sioux City, Iowa  
Iowa Sewer Pipe & Tile Co....Des Moines, Ia.  
Lehigh Sewer Pipe & Tile Co....Fort Dodge, Iowa  
Northwestern Lime Co....St. Paul, Minn.  
Plymouth Clay Products Co....St. Paul, Minn.  
Red Wing Sewer Pipe Co....Red Wing, Minn.  
Standard Salt & Cement Co....Duluth, Minn.  
St. Paul Foundry Co....St. Paul, Minn.

## SHADE ADJUSTERS.

Wm. J. Work....St. Paul, Minn.

## SHEETS-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co....La Crosse, Wis.  
Berger Mfg. Co....Minneapolis, Minn.  
Gardner Hardware Co....Minneapolis, Minn.  
Haakinson & Beatty Co....Sioux City, Iowa  
Inland Steel Co....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co....Chicago, Ill.  
Avery Steel & Iron Co....Minneapolis, Minn.  
Crown Iron Works Co....Minneapolis, Minn.  
Berger Mfg. Co....Minneapolis, Minn.  
General Western Material Co....Waterloo, Ia.  
Haakinson & Beatty Co....Sioux City, Iowa  
K. F. Lott & Co....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Haakinson & Beatty Co....Sioux City, Iowa  
Peerless Marble & Tile Co....Minneapolis, Minn.  
Twin City Tile & Marble Co....Mpls., Minn.

## SKYLIGHTS.

Badger Steel Roofing & Corrugating Co....La Crosse, Wis.  
Haakinson & Beatty Co....Sioux City, Iowa  
Krieger-Jamar Co....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co....St. Paul, Minn.  
H. C. Thomas & Bro....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co....Minneapolis, Minn.  
W. S. Nott Company....Minneapolis, Minn.

## STEEL-BARS.

American Bridge Co....Minneapolis, Minn.  
Avery Steel & Iron Co....Minneapolis, Minn.  
Haakinson & Beatty Co....Sioux City, Iowa  
Inland Steel Co....St. Paul, Minn.  
Twin City Tile & Marble Co....Mpls., Minn.

## STONE.

Babcock & Wilcox....Kasota, Minn.  
Biesanz Stone Co....Winona, Minn.  
Edw. Edinger Co....Cedar Rapids, Ia.  
Kettle River Co....Minneapolis, Minn.  
Duluth Cut Stone Co....Duluth, Minn.  
Mantorville Stone Co....Mantorville, Minn.  
New Ulm Stone Co....New Ulm, Minn.  
Pioneer Granite Co....St. Cloud, Minn.  
Sauk Rapids Granite Co....Sauk Rapids, Minn.  
Wm. Penn Stone Co....Minneapolis, Minn.  
The Widell Co....Mankato, Minn.

## STRUCTURAL SECTIONS AND SHEETS.

American Bridge Co....Minneapolis, Minn.  
Avery Steel & Iron Co....Minneapolis, Minn.  
Des Moines Bridge & Iron Co....Des Moines, Iowa  
Inland Steel Co....St. Paul, Minn.  
Haakinson & Beatty Co....Sioux City, Iowa

## TANKS-STEEL.

American Bridge Co....Minneapolis, Minn.  
Avery Steel & Iron Co....Minneapolis, Minn.  
Des Moines Bridge & Iron Co....Des Moines, Iowa  
Minneapolis Steel & Mach. Co....Mpls., Minn.  
St. Paul Foundry Co....St. Paul, Minn.

## TANKS-WOOD.

Twin City Tank, Silo & Specialty Co....Minneapolis, Minn.

## TERRA COTTA.

Belt Line Brick Co....Mpls. and St. Paul  
General Western Material Co....Waterloo, Ia.  
Haakinson & Beatty Co....Sioux City, Iowa  
Hydraulic Press Brick Co....Minneapolis, Minn.  
Johnson, Jackson & Corning Co....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co....Minneapolis and St. Paul, Minn.

## THEATER EQUIPMENT.

The Monarch Co....St. Paul, Minn.

## TILE-CLAY-PARTITION AND FLOOR.

Hydraulic Press Brick Co....Minneapolis, Minn.  
Standard Salt & Cement Co....Duluth, Minn.

## VARNISHES.

Gardner Hardware Co....Minneapolis, Minn.  
North Star Varnish Co....Minneapolis, Minn.  
Twin City Varnish Co....St. Paul, Minn.

## VALVES.

Crane Co....Minneapolis, Minn.  
Crane & Ordway....St. Paul, Minn.  
Mechanical Specialty Co....St. Paul, Minn.

## VENTILATING SYSTEMS.

Arex Company....Chicago, Ill.  
Hackney Ventilating Co....Minneapolis, Minn.  
J. C. Kerchen....Chicago, Ill.  
G. A. Turner....Minneapolis, Minn.

## WALL BEDS.

Northwestern Bedding Co....St. Paul, Minn.

## WATERPROOFING.

General Western Material Co....Waterloo, Ia.  
Gardner Hardware Co....Minneapolis, Minn.  
Hydraulic Press Brick Co....Minneapolis, Minn.  
H. W. Johns-Manville Co....Minneapolis, Minn.  
Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co....St. Paul, Minn.  
W. S. Nott Company....Minneapolis, Minn.  
Standard Salt & Cement Co....Duluth, Minn.

## WATER TOWERS-STEEL.

American Bridge Co....Minneapolis, Minn.  
Des Moines Bridge & Iron Co....Des Moines, Iowa

## WATER WORKS EQUIPMENT.

Waterous Engine Works Co....St. Paul, Minn.

## WIRE AND IRON WORKS.

Builders Iron Works....Minneapolis and St. Paul, Minn.  
Haakinson & Beatty Co....Sioux City, Iowa  
Midway Ornamental Iron Works....St. Paul, Minn.

## WEATHER STRIPS.

Metal Weather Strip Co....St. Paul, Minn.

## WOODWORKING MACHINES.

G. E. Ingersoll....St. Paul, Minn.

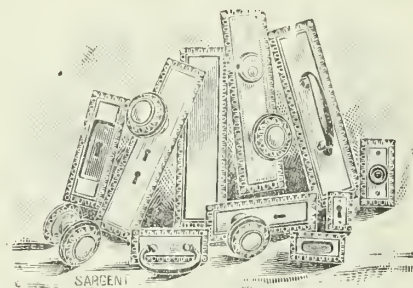


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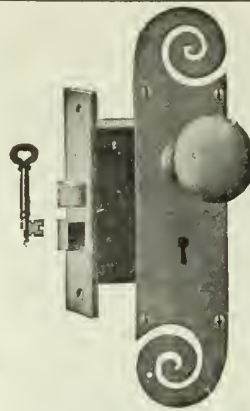
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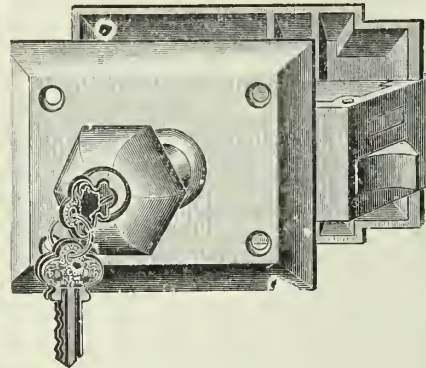
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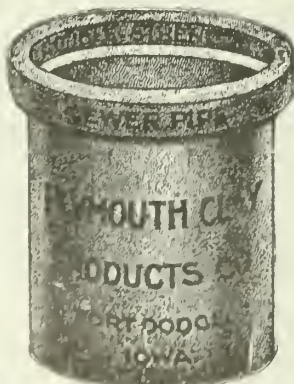
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, FEBRUARY 6, 1915

NUMBER 10

## EDITORIAL

O. L. COLBURN, Editor

### A CONSTRUCTION SUPERINTENDENT SUGGESTED.

Consideration of the school board's proposition to establish an architectural bureau for itself would lead many practical persons, experienced in building, to think that the board would better have a first class construction superintendent, than an architect devoting his entire time to the city's school building at \$3,500 a year.

A superintendent of construction would not have to have the expensive establishment which the architect will require. Harvard university employs a superintendent of construction and usually engages a noted engineer.

It would be interesting to learn from the school board "progressives" how extensive an establishment they think will be needed; how many draftsmen; the expense of superintendence; whether the architect or superintendent of construction, or both, if the architect will not be required to superintend his own work, will have to have an automobile; whether the city will furnish this; or whether the city architect will have to purchase and maintain and repair his own machine out of his large income of \$3,500 a year (not to mention his living and such other incidentals as the pleasurable purchase of tickets to benefits and other gentle assessments incident to being a member of the city's official family).

It seems from the information so far made public by the board on this matter that it is going into a series and an accumulation of expenses which it does not know enough about. This is not business-like; and the facts of city taxes and indebtedness show conclusively the need of strong, good sense in preventing waste.

If established, the school board architectural bureau will be under civil service protection. This means that the architect's position will be secure under ordinary conditions. Is it human nature to rest assured when it can? This sometimes dulls the edge of keen interest in keeping up-to-date, when private enterprise and competition would tend to sharpen it; (and especially if the city's architect is receiving \$3,500 a year, buying an automobile and furnishing himself a garage).

A broad view of the matter of engaging architects for public buildings reveals that body or official who disregards it, as in the wrong attitude, an inferior relation, to the art of architecture; with an apparent lack of appreciation of the educational power of a beautiful building. Every public school should be elevated to an important position as a problem in architectural art. The school board knowing that education is a drawing-out or leading-out of the best in human nature, should make every effort to have each school an object of admiration; a means of encouraging talent and showing the rewards of merit in one of the great professions. The influence of fine design has few if any better opportunities than a public school (or college or university) for obvious reasons. It seems to us the low attitude involves an ignoring of this educational influence; and that an effort at cheapness, not well thought out, will prove more costly than dependence on liberty of effort, private enterprise and the virtues of employing a good superintendent of construction.

### AN IMPORTANT DECISION FOR ARCHITECTS.

There will be general satisfaction among architects over the clear-cut decision of the Minnesota supreme court on the question of a lien against land to secure pay for plans. The lawsuit which resulted in this interpretation of the lien law was brought by Messrs. Long, Lamoreaux & Long, of Minneapolis against Louis Andersch, also of Minneapolis. The opinion was given by Judge Bunn. It says:

1. An architect who, under contract with the owner of land, furnishes plans and specifications for the construction of a building thereon, is entitled to a lien upon the building and land upon which it is constructed, though he does not supervise the construction.

If the owner, after the plans are furnished, of his own volition and without fault of the architect abandons the construction of a building on the land, the architect has a lien on the land. An actual improvement is not necessary to a lien.

2. The contract between the architect and the owner was that the former should furnish plans and specifications for and supervise the construction of the building for an entire consideration based on a percentage of the total cost. The lien statement was filed within ninety days after the owner repudiated the contract. It is held that such statement was filed in time, though the last work on the plans and specifications was done more than ninety days prior thereto.

### NOTES OF THE WEEK.

Senator Frank E. Putnam, chairman of the Minnesota state senate judiciary committee, has introduced a bill codifying state laws relating to county and judicial ditches. These laws have been enacted at various times, and there are many uncertainties concerning them, it is said. Senator Putnam's revision is comparatively brief and assembles all acts under one general heading.

The bill to authorize Minneapolis to establish a municipal building construction bureau to eliminate contractors and architects so far as possible from city work was introduced by L. A. Lydiard of Minneapolis, member of the lower house at St. Paul. The first provision is for a building board, this commission to establish a building bureau to have charge of the construction of all public structures. St. Paul is trying out this plan. It might be well to wait and see what the experience with it there furnishes to recommend it

Filtration is the best plan for improving the St. Paul water supply, according to the report of Allen Hazen, New York engineer, submitted to the water board. St. Paul must look for additional sources of supply within twenty years, Mr. Hazen said. He recommended that preparations be made to increase the supply within ten years. The Mississippi and St. Croix rivers and Mille Lacs lake were mentioned as possible sources of additional supply.

The annual convention of the Western Association of Electrical Inspectors here was a success in every way. A good example of how to make an annual gathering pleasant and profitable. Frank M. Stover, speaking on Fire Alarm Systems, favored grounding wires for safety to users during electrical storms, and after accidents causing circuit contacts with high tension lines. "The silent life saver" was a popular reference by Victor Tousley, chief electrical inspector of Chicago, to the electrical inspector.



# The Banquet in Honor of Mr. Gibson

Wm. Gibson, of the Waterous Engine Works of St. Paul, known for many years to a great number of people in the northwest, received the most unmistakable proofs of esteem at the banquet in his honor Jan. 30, at the St. Paul hotel in St. Paul. James F. Gould was toastmaster. The banquet was exceptionally well attended by contractors and material men from Minnesota, North and South Dakota, Iowa and Wisconsin. He was presented with a gold headed cane and a gold headed umbrella, W. I. Gray of the Belden, Porter, Gray & Co., Minneapolis, making the presentation speech, to which "Dad" responded gracefully. Frank J. Waterous, and W. Holmes, of the Waterous Engine Works Co. told of "Dad's" connection with the company, and his loyalty. Charles P. Waterous informed those present that Mr. Gibson has recently perfected a new hydrant, and that to further perpetuate his memory, the Waterous Engine Works Co. have decided to call the hydrant "The Gibson."

Mr. Gibson was born on a farm near Hamilton, Ontario, Sept. 4, 1838, and entered the employ of the Waterous Engine Works Co., at Brantford, Ont., when fifteen years old. In the early seventies he superintended the installation of many water works systems in eastern Canada, among them Truro, N. S., Longuil, Quebec and Windsor, Ontario. In 1881 the Waterous Engine Works opened a branch in Winnipeg. Mr. Gibson was placed in charge of same and he remained there until 1886, when he was transferred to St. Paul, where he has remained ever since.

Several of Mr. Gibson's friends and neighbors, who are experts on the mandolin and members of a string orchestra, heard about the testimonial banquet for "Dad" and offered their services. An orchestra of seven pieces was present and rendered excellent music.

At this banquet, it was voted to form a permanent organization of water works contractors and material men, to hold an annual banquet, and the following committee was appointed by Chairman Fraser: J. F. Gould, Platt Iron Works (Manager northwestern office) chairman; P. J. Pastoret, contractor, Duluth, Minn.; B. V. Bickelhaupt, Des Moines Bridge & Iron Works, Des Moines, Iowa (contracting engineer); H. P. Burgum, contracting engineer, W. D. Lovell Co., Minneapolis; C. H. Porrett, Fargo, N. D.

Present at Gibson banquet: C. J. Anderson, James B. Clow & Sons Co., Minneapolis, Minn.; Walter Buehler, Butler Coons Construction Co., Hibbing, Minn.; H. P. Burgum, W. D. Lovell Co., Minneapolis; W. B. Bosworth, Ada, Minn.; H. F. Bosworth, Ada, Minn.; L. E. Breen, Streeter Clay Products Co.; R. W. Bailey, Oskaloosa, Iowa; W. V. Bickelhaupt, Des

Moines Bridge & Iron Co., Des Moines, Iowa; W. C. Buck, 4821 Fremont av. S., Minneapolis; S. D. Moore, Black Hawk Construction Co., Waterloo, Iowa; J. J. Conley, St. Paul; S. C. Clow, Red Wing Sewer Pipe Co., Red Wing, Minn.; J. P. Clarkson, Fraser, Danforth Co., St. Paul; C. E. Clarkson, Fraser, Danforth Co., St. Paul; D. Case, J. B. Clow & Sons Co., Minneapolis; H. Coalsaet, Marshall, Minn.; E. W. Coons, Butler Coons Construction Co., Hibbing, Minn.; G. F. Downings, Wm. Danforth, St. Paul; J. F. Druar, consulting engineer, St. Paul; Wm. F. Fortune, James Kennedy Co., Fargo, N. D.; Wm. C. Fraser, St. Paul; J. P. Greene, Albert Lea, Minn.; J. F. Gould, Platt Iron Works, Minneapolis; S. A. Glass, Brainerd, Minn.; "Dad" Gibson, Waterous Engine Works, St. Paul; W. I. Gray, Belden, Porter, Gray Co., Minneapolis; Mr. Shaw, Haggart Contracting Co., Fargo, N. D.; W. Des Moines Bridge & Iron Works Co., Pittsburgh, Pa.; John Keough, St. Peter, Minn.; Ed. Kircher, F. J. Kircher, Geo. Kircher, St. Paul; Andrew Kennedy, Waterous Engine Works, St. Paul; W. D. Lovell, Minneapolis; W. F. Lawrence, Eveleth, Minn.; E. C. Lysett, Fraser & Danforth, St. Paul; C. R. McCann, Eveleth, Minn.; R. D. Marsh, Bailey-Marsh Co., Minneapolis; Mr. Shaw, Moffatt Co., Des Moines, Iowa; John Olson, M. Johnson, Ilstrup & Olson, Minneapolis; C. H. Porrett, Fargo, Minn.; P. J. Pastoret, Duluth, Minn.; J. M. Pitblado, Minneapolis Steel & Machinery Co., Minneapolis; J. G. Robertson, A. R. Robertson, St. Paul; W. C. Raddaty, Waterous Engine Works, St. Paul; E. T. Sykes, Minneapolis; M. R. Swedberg, W. D. Lovell Co., Minneapolis; J. W. Turner, Turner Construction Co., Des Moines, Iowa; R. A. Tanner, St. Paul; Mr. Thill, Thill, Manning, Whalen, La Crosse, Wis.; Jos. Thornton, St. Paul; H. E. Vergosen, Fairbanks-Morse Co., St. Paul; E. T. Webster, St. Paul; Wm. Walters, Red Wing Sewer Pipe Co., Red Wing, Minn.; D. W. Wallace, American Cast Iron Pipe Co., Minneapolis; R. B. Whitacre, St. Paul; Frank J. Waterous, Chas. P. Waterous, Waterous Engine Works, St. Paul; C. M. Ladd, Chicago Bridge & Iron Co., Chicago, Ill.

In the course of remarks as toastmaster Mr. Gould said: Just now when the legislature of this state is in the throes of a county option measure, it seems to be most fitting and appropriate to honor the water wizard of the northwest—to honor the man whose work has spilled more water throughout the northwest than all of the breweries have spilled beer. Not much we can do tonight will add honor to this patriarch, where every hydrant of the great northwest is a monument to his memory. For more than three score years he has worked among us, and each added year has endeared him to us with an ever increasing ratio

## NEW "BARN" TYPE OF POST OFFICE.

Minneapolis' new million-dollar post office building is large enough to accommodate the needs of the city when its population is half a million or more. This is the verdict of postal experts who went over the building recently after all furniture and machinery for handling the mails had been installed. The new "barn" plan is the particular style of architecture employed in designing the new building. The one-story building, which covers the larger part of the block, has nearly three acres of floor space. There is enough sunlight in every part of the work and mailing rooms so that artificial light will not be necessary in the daytime. The plan for daylight for workrooms is the modern style, adopted by the post office department, and the Minneapolis building is one of the first constructed after this pattern. The size of the workrooms as well as their light and air is another feature in which the post office differs from older style buildings. In the large room



on Washington av. and 2d av., city delivery mails will be handled, including special delivery and parcel post for city delivery. This room, with more than 10,000 square feet of floor space, provides workroom for 350 men engaged in distributing mail.

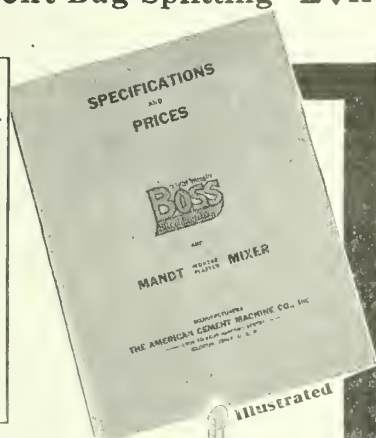
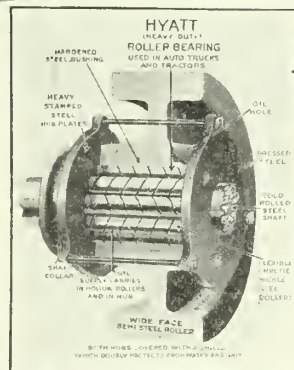


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High Wheels Furnished  
28" Rear, 20" Front, 4" Tires  
WHEELS RUN IN WAGON TRACKS

M. E. Gifford, Madison, Wis., of Elkhart Bridge Co., ordered 6th "Highway Special," says "Other 5 mixers never caused a minute's delay."

Sold on Trial. Cash or Easy Payments

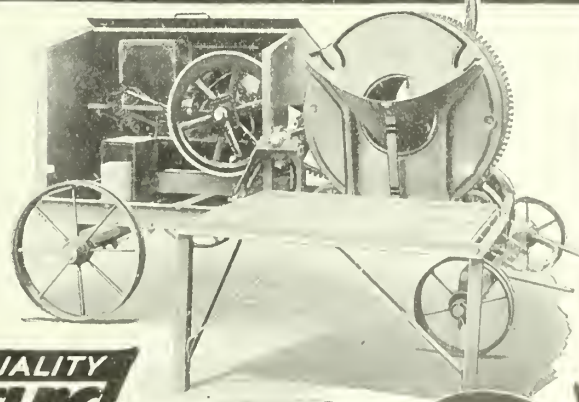
**THE AMERICAN CEMENT MACHINE COMPANY, Inc.**  
1125 JOHNSON ST., KEOKUK, IOWA

**\$78<sup>50</sup>**

## Lowest Charging Mixer Now Furnished With Steel Hinged Loading Platform

5 Ft.  
Capacity

Also  
Furnished With  
Hoist  
Power Loader  
Batch Hopper  
Measuring  
Water Tank



**SPEED QUALITY**  
**Packard**  
**HAND AND POWER MIXER.**

**STURDY**

**Portable Quality Mixer  
At Wholesale Price**

Steel Construction, Semi-Steel Gears

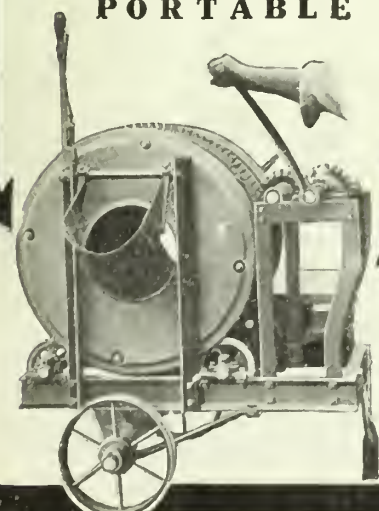
CASH OR PAYMENTS

Fully Guaranteed—Money Back After Five Days' Trial

**CONTRACTORS MACHINERY COMPANY**  
140 ELEVENTH ST., KEOKUK, IOWA

**\$185**

Mixer on steel trucks  
3 H.P. Engine, Steel  
Housing, Low Barrow  
Hopper, Ready to Run



Buy  
**A Real Hand Mixer**  
Capacity up to 4 1-2 Feet  
Wick Oiling Boxes  
**PORTABLE**



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### MINNEAPOLIS BUILDERS' EXCHANGE MONTHLY MEETING.

Prohibition as a public issue bobbed up unexpectedly in the Builders' Exchange, Minneapolis, at the monthly meeting Tuesday. Secretary Eugene Young reporting on measures of interest to builders which are now before committees of the legislature at St. Paul, stated that one bill would make it necessary to pay all wages in cash instead of checks, and that one argument for this change was that workmen cashed most of their checks in saloons. Somebody said that if necessary contractors might become prohibitionists, to continue the practice of paying checks. Another bill of interest proposes to make it necessary that an employ be paid all wages due in cash at any time he decides to quit, without having to wait until next pay day. The bill to make it possible to remove a lien by giving a bond (senate file 56), was opposed by the exchange; but the bill against the diversion of money on material by contractors and subcontractors, away from the job for which it was intended, was endorsed. President Maurice Schumacher announced the standing committees for the year. A new committee on advertising was authorized. This committee will act as a sort of clearing house for all advertising propositions presented to members of the exchange. Solicitors will be referred to this committee for its endorsement. Mr. Davis of the Civic and Commerce Association, committee on housing exhibited slides of districts of poor housing in Minneapolis.

### A MISTAKE CORRECTED.

Through a misunderstanding a note appeared in the advertisement of the Denison Fire-Proofing Co. in the Outlook number of The Improvement Bulletin, Jan. 23, which stated that Denison Load Bearing Tile and the Denison Partition Tile "was used throughout the building," referring to a picture of the Janney-Semple-Hill warehouse, Minneapolis. This statement should have been used in connection with another building. The walls in the warehouse of the Janney-Semple-Hill Co. are not bearing, but curtain walls, supported at each floor by structural members.

### GREETERS' WEEK AT A THEATER.

"Greeters' Week" is the title given to the week of Feb. 27 at the Bainbridge Theater, Minneapolis. It means that the play "Over Night," a lively comedy, with hotel features, has been chosen as the bill, and that hotel clerks will be there in large numbers. The net proceeds will be used to promote the candidacy of Earl W. Byer, clerk at the West Hotel, for president of the Greeters of America, at the annual meeting next June in Atlanta, Ga. Tickets are on sale now. While the Bainbridge players will do the acting in the production of the funny farce a local color will be given in a hotel office scene in which some of the best known hotel clerks in the city will appear, among them Mr. Byer, himself, James T. Rice of Hotel Andrews; Hector L. Bourgerie, Nicollet House; George L. Crocker, Hotel Dyckman, and others.

Officers elected by the Wisconsin Master Plumbers Association: President, Herman G. Helstrom, Eau Claire; vice president, B. J. Brewer, Waukesha; secretary, W. E. Goodman, Kenosha; treasurer, F. S. Greene, Janesville.

Electrical contractors of Wisconsin elected officers: L. W. Burch, Madison, president; F. J. Natwick, Grand Rapids, vice president; treasurer, Geo. Knoerr, Milwaukee; secretary, Albert Peterman, Milwaukee; state director, Herman Andrae, Milwaukee.

Iowa Master Plumbers elected: John A. Thomas, Des Moines, president; Jas. M. Wilson, Washington, Iowa, vice president; S. S. Smith, Waterloo, secretary; W. D. Hogan, Sioux City, treasurer.

Geo. Smith, contractor, Cedar Falls, Iowa, has put up buildings there this year costing \$110,000, including Sartori memorial hospital.

The Omaha Sash & Door Co. was incorporated recently by W. V. Harrison, S. C. Eader and E. H. Palmquist; the capital stock of the concern will be \$10,000, and its place of business in Omaha.

Hopeman Construction Co., Fargo, N. D., and Moorhead, Minn., are installing a new catalog file, and they would be pleased to have interested firms and companies send in their latest catalog publications.

H. J. Bauman, former building inspector and old time contractor of Minneapolis, died recently.

C. A. Hosford, Northfield, Minn., has taken a contract from Rundquist & King, Duluth, to grade nineteen miles of railroad near Van Horn, Texas. Mr. Hosford's firm is Engstrom & Hosford. J. M. Gates of Minneapolis will go to Texas with Mr. Hosford.

Felix Barbeau, a veteran railroad contractor of Minneapolis, died Jan. 31.

At a meeting last week of the Helena, Mont., Builders' Exchange, John Dryburgh was elected president; first vice president, B. R. Streets; second vice president, Chas. Jacoby; secretary, R. D. Stocking; treasurer, H. A. McKinnon. Contractors are optimistic concerning the outlook.

St. Paul Jovian League held its regular luncheon Thursday evening. Louis Nash, the new member of Saint Paul City Commission, was the speaker.

### ARCHITECTS AND ENGINEERS.

Fargo was well represented at the seventh annual meeting of the North Dakota Society of Engineers, which was held in Minot on Feb. 4 and 5, by City Engineer Frank L. Anders; Prof. H. R. Slocum, engineering department of the agricultural college; State Engineer Samuel F. Crabbe; M. L. Hibbard of the Union Light, Heat & Power Co., and J. A. Jardine of Jardine & Anderson.

C. E. Durlan, city engineer of Billings, Mont., was elected president of the Montana Institute of Municipal Engineers; C. C. Widemer, city engineer of Bozeman, secretary.

The Integral club, an organization of engineers in Minneapolis and St. Paul, met Feb. 2, at the Nicollet hotel and listened to an address by Prof. F. R. McMillan, of the engineering college, university of Minnesota, on, "The Effect of Temperature and Time on Concrete." He introduced the results of many tests at the university. The Integral club is only 3 years old, but is now a live and successful society.

Geo. L. Wilson, engineer of the Twin City Rapid Transit Co., was chosen president of the Engineers' club of Minneapolis, at the annual meeting Monday evening; H. M. Stout, with the N. P. R. R., vice president; Paul R. Thompson of Bros Boiler Works, treasurer; E. W. Ashenden, Bros Boiler Works, secretary; Edwin S. Brown of Hewitt & Brown, Ralph Thomas, engineer, Water Power Co., and Carl Ilstrup, city sewer engineer, directors; chairmen of committees: R. P. West, entertainment; E. T. Abbots, smoke prevention; E. T. Burch, civic and commerce; H. A. Rodgers, publicity. The paper by Prof. B. F. Groat, hydraulic engineer, Pittsburgh, on precise testing of hydraulic turbines, proved unusually interesting, as he had just finished a test at the Coon Rapids plant in which he used over 50 tons of salt.

Stebbins & Haxby, architects, have removed to much larger quarters in 445-450 Auditorium block. Mr. Stebbins had been twenty-four years in the Masonic Temple.

W. M. Kenyon of Kenyon and Maine, has returned from North Yakima, Wash., where he spent some time superintending the large country mansion of Mr. Congdon of Duluth.

Max Toltz was toastmaster at the dinner of the Civil Engineers' Society of St. Paul, Jan. 30. The list of guests was headed by Mayor Winn Powers of St. Paul and M. N. Goss, of the city commission.

### BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file January 30: Berg memorial gymnasium, Cooperstown, N. D., Feb. 1; Y. M. C. A. building, Racine, Wis., Feb. 2; water works equipment, Ely, Minn., Feb. 2; school, Letcher, S. D., Feb. 9; hospital, Red Wing, Minn., Feb. 9; hospital, Red Wing, Minn., Feb. 9; East Side school, Sioux Falls, S. D., Feb. 12; school, Middle River, Minn., Feb. 15; school, Lonetree, N. D., Feb. 23; Catholic church, Detroit, Minn., Feb. 25; post office, Miles City Mont., Feb. 27; post-office, Lawton, Okla., Mar. 6; store, Minot, N. D.; remodeling residence, Mankato, Minn.; bank building, Emmons, Minn.

Bids in: Dormitory, Yankton, S. D., Jan. 26; soils building, Madison, Wis., Jan. 18; biology building, Minneapolis, Jan. 21.

### BRAGSTAD AT CEMENT SHOW.

One of the spaces at the cement show in Chicago next week will be occupied by the Bragstad Concrete Machinery Co., Canton, S. D. The Bragstad concrete mixer will be explained to visitors by Mr. A. Bragstad, the secretary of the company, who will take charge of the exhibit himself.



# Barrett Specification Roofs



"West End" Factory  
Craddock-Terry Co.,  
Lynchburg, Va.  
Roofers: T. B. Dorwin-  
Adams Co.  
Lynchburg, Va.

## In The South

HERE are the three buildings of the Craddock-Terry Company, the large shoe manufacturers of the South.

They are typical American manufacturing buildings—and there are scores of such buildings in every large city.

All three are covered with Barrett Specification Roofs, and this too is typical, for such buildings are usually roofed in this way.

The reason is simple—it is a matter of best value for the money! Barrett Specification Roofs are the cheapest permanent roofs to build and they cost nothing to maintain.

The unit cost of Barrett Specification Roofs (the cost per foot per year of service) runs reliably about  $\frac{1}{4}$  cent, a lower figure than any other roofing can even approach.

By incorporating The Barrett Specification verbatim in your building plans you make certain that your contractor, whoever he may be, will lay for you exactly the same quality of roof that tops most of the great structures and manufacturing plants of the United States.

*Copies of this Specification with diagrams will be sent free on request to any one interested.*

Main Offices and  
General Warehouse

### BARRETT MANUFACTURING COMPANY

New York	Chicago	Philadelphia	Boston	St. Louis	Cleveland
Cincinnati	Pittsburgh	Detroit	Birmingham	Kansas City	Minneapolis
		Salt Lake City	Seattle		

THE PATERSON MFG. CO., Limited:	Montreal	Toronto	Winnipeg
Vancouver	St. John, N. B.	Halifax, N. S.	Sydney, N. S.



"Southland" Factory





# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

### ENGINEERS

**L. P. WOLFF**, Consulting Engineer,  
M. Am. Soc. C. E.  
1000-1003 Germania Life Bldg., St. Paul.  
Water Works Sewerage, Bridges, Water  
Power Development.

**M. B. STONE**  
BRIDGE AND STRUCTURAL ENGINEER

Plans and Estimates  
Bridges and Buildings  
Steel and Concrete :-:

Nicollet 4719 121 Andrus Building  
Minneapolis, Minn.

**WILLIAM PIERCE COWLES**  
Consulting Engineer, Mem. Am. Soc. C. E.,  
616 Flour Exchange, Minneapolis. Bridges,  
Buildings, Adjustments, Reports. Tel. N.  
W. Main 735. Umbrella System.

### COLD STORAGE

Plans, Specifications and Supervision for  
Creameries, Breweries, Packing and Ice  
Cream Plants. Contracting Engineer for  
Cold Storage Plants.

**CHAS. A. BERGER**,  
Refrigerating Engineer and Architect,  
Sykes Block, Minneapolis.

## ROY E. CURTIS

*Architectural Sculpture.*

*Plain and Ornamental  
PLASTERING*

1123 W. MICHIGAN ST. DULUTH, MINN.

## CAST IRON PIPE AND FITTINGS

**STOCK IN MINNEAPOLIS All Sizes**

**AMERICAN CAST IRON PIPE CO.**

Minneapolis, -- -- -- Minn.

### CONTRACTORS' EQUIPMENTS.

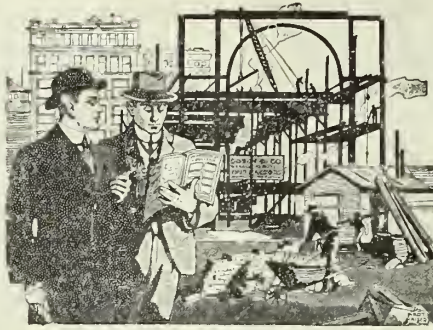
We lease, buy and sell Boilers, Engines,  
Pumps, Hoisting Engines, Power, Mining  
and Quarry Equipment.

#### SPECIAL—BIG BARGAINS

Two Cable Way Engines, 10x12 and 8x10.

**MERTES MACHINERY CO.**

Milwaukee :: :: Wis.



**OFFICIAL ADVERTISEMENTS** for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

**RATE:** 15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

**PUBLICATION DAY:** Last forms close 10 a. m. Friday. Copy received up till that hour will be published in The Bulletin and delivered to subscribers the next day. Copy received later cannot be published till issue of the following week.

**MINIMUM CHARGE:** No advertisement published for less than \$2.00 each insertion.

**NIGHT LETTER OR PHONE:** When too late to send copy by mail to reach us by 10 a. m. Friday, forward by night letter or long distance telephone.

**PRINTED SLIPS** containing the ad, are furnished to officials, architects and others interested, for distribution by them, without extra charge.

The Daily Reports of The Improvement Bulletin, published every business day, can be used to advantage when copy cannot reach us in time for publication in the weekly Bulletin before bids are to be opened or when daily publications are necessary to meet legal requirements. Rate is the same, —15c per line each insertion.

## Proposal Index

Bids Close	See Imp. Bulletin Dated
Feb. 1. Sewers, Mitchell, S. D. ....	Jan. 16
Feb. 1. Gymnasium, Cooperstown, N. D. ....	Jan. 9
Feb. 2. School, Letcher, S. D. ....	Jan. 16
Feb. 5. Centrifugal pump, Ely, Minn. ....	Jan. 30
Feb. 8. Judicial Ditch No. 27, Beltrami County, Minn. ....	Jan. 16
Feb. 9. Dormitory Building, Red Wing, Minn. ....	Jan. 23
Feb. 10. State road, Ivanhoe, Minn. ....	Jan. 16
Feb. 10. State bridge, Ivanhoe, Minn. ....	Jan. 16
Feb. 11. Library Building, Garner, Iowa ....	Jan. 23
Feb. 12. School, Sioux Falls, Minn. ....	Jan. 30
Feb. 12. School, Sioux Falls, S. D. ....	Jan. 9
Feb. 18. Govt. Bldg., Lincoln, Neb. ....	Jan. 9
Feb. 25. Church, Detroit, Minn. ....	Jan. 23
Feb. 27. Govt. Bldg., Miles City, Mont. ....	Jan. 9
March 1. Extension street lighting system, Grand Forks ....	Jan. 30

## PROFESSIONAL DIRECTORY

### ENGINEERS

**OSCAR CLAUSSEN ENGINEERING COMPANY**

Consulting Engineers.  
Engineering Experts to Municipalities.  
312-16 Commercial Bldg., St. Paul, Minn.

**CHARLES L. PILLSBURY**,

CONSULTING ENGINEER,

Guaranty Building, Minneapolis.

**POWER ENGINEERING CO.**

Offices, Corn Exchange Bldg., Minneapolis, Minn.

**CONSULTING ENGINEERS**

Water Power Examination, Surveys and Reports.

Appraisals and Adjustments.

**LEWIS A. LARSEN**

CONSULTING ENGINEER

Specialist in Power Plants, Waterworks and Heating and Ventilating

Office: 643 Endicott Bldg., St. Paul, Minn.

### LABORERS

**WE FURNISH LABORERS**, all classes and nationalities, any number, also mechanics, tradesmen, etc. No charge for service and you get the best kind of men. Your patronage solicited. Phone, write or wire **DIAMOND LABOR SUPPLY CO.**, 32 S. Canal St., Chicago; Bell phone Franklin 4529. We are also boarding camp contractors—complete outfits furnished.

**Twin City Tank, Silo & Specialty Company**

Manufacturers of all Kinds of

Minneapolis TANKS Minn.

## BLUE PRINTING

**Speed and Quality**

TRY THE

**Minneapolis Blue Printing Co.**

Most Modern in the Northwest"

422 Hennepin Ave., Minneapolis

Complete line of Keuffel & Esser Instruments. Write for Catalogue

# BECK ELECTRICAL CONSTRUCTION COMPANY

HIGH GRADE POWER AND ELECTRIC LIGHT INSTALLATION 1139 Plymouth Bldg. Minneapolis

## Contractors' Bonds and Workmen's Compensation Insurance

211-222 Commerce Building  
ST. PAUL

**WM. B. JOYCE & CO.**

702-12 Metropolitan Life Bldg.  
MINNEAPOLIS

NORTHWESTERN MANAGERS

**NATIONAL SURETY COMPANY OF NEW YORK.**

Communicate with Us before Arranging your Insurance.

PLEASE MENTION THE BULLETIN WHEN WRITING ADVERTISERS.



# Tarvia

*Preserves Roads  
Prevents Dust~*



Ridge Road, eastern town limits  
of Highland, Ind.  
Treated with "Tarvia B."

## Highland's Experience with Tarvia—

"OUR experience with 'Tarvia B' has been most satisfactory. We are satisfied that it is the material to use for a binder and a road preservative on roads that have been built. We shall be pleased to show what 'Tarvia B' has done for us to any one interested in good roads at any time."

—So writes the town clerk of Highland, Ind., Mr. H. F. Dougherty.

Any person who accepts his invitation to go to Highland and see what "Tarvia B" has done for that town will find splendid macadam roadways with a very tough, plastic surface; smooth, quiet, clean, dustless and mudless.

A close examination of the surface of those roads will show it to be so plastic that a hammer blow will change its shape but will not fracture it.

The first cost of tarviating macadam is often slightly greater than the cost of other methods of treatment, but the result is so vastly better and the durability of the road so much greater that the extra expense is more than balanced by the longer life and better condition.

The use of Tarvia on your macadam roads will do away with the dust nuisance, add to property values, and reduce taxes.

*Booklets free on request. Address our nearest office.*

### BARRETT MANUFACTURING COMPANY

New York	Chicago	Philadelphia	Boston	St. Louis	Cleveland	Cincinnati
Pittsburgh	Detroit	Birmingham	Kansas City	Minneapolis	Salt Lake City	Seattle
THE PATERSON MFG. CO., Limited:			Toronto	Winnipeg	Vancouver	St. John, N. B.
						Halifax, N. S.
						Sydney, N. S.





## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT  
ASSETS \$3,514,125.50  
Both Phones 622

The Hood & Matschke Co.  
GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.  
ASSETS \$4,823,371.79  
MINNEAPOLIS, MINNESOTA

### Brick of Quality.

#### Dickinson Brick

ALL KINDS

Call for Samples and Prices

DICKINSON Fire and Pressed BRICK CO.  
Dickinson, N. D.

#### RUFUS P. MORTON

Manufacturer of

#### CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
Correspondence Solicited.



#### J. C. Kernchen AREX

Inventor

Original Siphonage Ventilator  
Storm-proof—Economical—No  
Movable parts.

"The Power Fan's Only Rival"

Manufactured Exclusively by

AREX COMPANY  
97 So. Dearborn St. CHICAGO

FOR SALE, ELECTRIC GENERATOR  
AND ENGINE.  
Moorhead, Minn.

The City of Moorhead, Minnesota, has at its electric plant a complete electric generator of 150 kilowatt capacity and a good Corliss engine. The unit is too small and is being superseded by a 500 kilowatt unit.

Electric generator is a two-phase, 60 cycle 2,200 volt, belted Westinghouse unit, modern in every respect and is complete with marble switchboard panel and wiring.

Engine is a Corliss unit with a 16 by 42-inch cylinder, and is rated 250 H. P. at 120 revolutions, on 125 pound steam pressure. Engine has a 12-foot flywheel and is complete with a 3-ply 22-inch belt,

belt tightener, and a good jet condenser. The complete unit may be inspected, at any convenient hour. The outfit will be sold with or without the engine, to the highest bidder. The generator is in exceptionally good condition, and cost the city \$3,639.90 in 1906.

Address the City Clerk, Moorhead, Minnesota.

#### High School, Excelsior, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a High School Building at Excelsior, Minn., including all labor and material under contract A, general work and painting, will be received by Board of Education, at Excelsior, Minn., until the hour of 6 P. M., on the 20th day of February, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by McElroy & Knapports, of Minneapolis, 416 Essex Building, which may be seen at the office of said Architects on and after Feb. 3, 1915, and may also be seen on application to W. M. McDonald, Clerk of Board, at Excelsior, Minn.

A deposit of \$5.00 each, per set of plans or specifications, will be required from each bidder, same to be refunded on return of said plans and specifications.

A certified check for \$100 payable to the order of Board of Education, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of amount of contract, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) W. M. McDONALD, Clerk,  
Board of Education of Excelsior.  
Place, Excelsior, Minn.  
Date, January 28, 1915.

#### CHURCH.

Bancroft, Iowa.

The undersigned hereby gives notice that sealed proposals for the erection and completion of a solid brick and stone church, including all labor and material, will be received by Rev. E. J. Jungblut, Bancroft, Iowa, until the hour of 7 p. m., on the 23rd day of February, 1915.

All bids must be in strict accordance with plans and specifications prepared by

Parkinson & Dockendorff, Architects of La Crosse, Wis., which may be had on application to the Architects.

A certified check for two (2%) per cent of the amount of bid, payable to the order of E. J. Jungblut, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on the letting of the contract.

The party to whom the contract is awarded will be required to give a satisfactory bond of fifty (50%) per cent of the amount of the contract for the faithful performance of the contract.

It is the intention of the owners to award the contract to the lowest responsible bidder, but the right to accept any or reject any or all proposals is reserved.  
(Signed) REV. E. J. JUNGBLUT.

#### CHURCH.

Easton, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a church to be erected at Easton, Minn., including all labor and material, except heating and plumbing and gas fitting, will be received by the building committee at Easton, Minn., until the hour of 2 p. m., on the twenty-first day of February, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by W. F. Keefe, Architect, of 304-305 Am. Natl. Bank Bldg., St. Paul, Minn., which may be seen at the office of above named Architect, on and after February 2, 1915, and may also be seen on application to Rev. A. Hennekes at Easton, Minn.

A certified check for 2% of bid payable to the order of Rev. A. Hennekes, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of contract, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) W. F. KEEFE,  
304 Am. Bank,  
St. Paul.  
Place, Residence of Rev. A. Hennekes,  
Easton, Minn.

(Continued on page 16.)



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.

Phones: N. W. 3902. T-S. Center 2194.

Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

C. Albert Peterson, 3820 2d av. S., 1½-story plaster veneer dwl.; John Ecklund, builder; address owner, 3924 36th av. S.	2,400
Nels A. Mortenson, 2606 Cedar av., 2-story plaster veneer flats (4); address owner, 2602 Cedar av.	5,500
The Leader Merc. Co., lessees, 247-49 Nicollet av., alterations; Edw. Helséth, builder; address owner, Nicollet av. southeast corner 3d.	4,000
Carl C. Berg, 1525 Crystal Lake av., 1-story concrete block blacksmith shop; contract not let; address owner, 1522 Crystal Lake av.	2,500
Albert E. and J. S. Melin, owners and builders, 1309-11 Stevens av., 2-story brick veneer and plaster veneer apartments; address owner, 2522 4th av. S.	10,000
Ole Johnson, 67 and 69 Bedford st. SE., 2-story plaster veneer flats (4).	8,000
Leonard J. Wilson, 4700 Garfield av., 1½-story plaster veneer dwl.; address owner, 4740 Pleasant av.	2,200
Gustaf B. Grunditz, 3717 11th av. S., 1½-story frame dwl.; address owner, 2710 Elliott av.	2,200
George L. Wertman, 3712 11th av. S., 1-story frame dwl.; address owner, 419 Metropolitan Life building.	2,300
George W. and Bessie A. Ball, 5052 S. Vincent av., 1-story plaster veneer dwl.; address owner, 4609 Xerxes av. S.	1,500
Nickels & Smith, 736-38-40 E. Lake st., 1-story brick addition to store; Frank H. Raidt, builder; address owner, 301 Loan and Trust building.	2,000
Nickels & Smith, 730-32-34 E. Lake st., alterations to brick store, office, apartment and hall building; address owner, 301 Loan and Trust building.	1,500
Mrs. Anna Seil, 4327 1st av. S., 1-story plaster veneer dwl.; O. L. Skoog, builder; address owner, 3420 1st av. S.	3,000
Louis Fleisher and Ben Bart, 1219 N. Irving av., 2-story plaster veneer duplex; address owner, 1015 Aldrich av.	4,300
A. D. Spring, 5115 S. Lyndale av., 2-story plaster veneer dwl.; address owner, 2205 Lyndale av. S.	3,500
Rea Realty Co., 3015 E. Franklin av., 1-story plaster veneer store and dwl.; A. L. Johnson, builder; address owner, 2001 Stevens av.	1,200
Pillsbury Flour Mills Co., 300-08 2d st. SE., 2-story brick, steel and reinforced concrete machine shop; H. N. Leighton Co., builders; address owner, 301 Metropolitan Life building.	25,000
J. M. Park and L. M. Latham, 3817 Columbus av., 1½-story frame dwl.; address owner, 115 W. 40th.	3,000
T. D. Dynes, 1725 3d av. S., interior finish frame dwl.; address owner, 1519 4th av. S.	1,500
Virgil Dillin, 609-11 E. 16th st., 2-story plaster veneer flats (4); John Dahlin, builder; address owner, 2427 Blaisdell av.	6,500
Milwaukee Elevator Co., Mary st. and C. G. W. Ry. Co.'s track, 1-story frame dust house; Hickock Elevator Construction Co., builders; address owner, 1023 Chamber of Commerce building.	1,200
Carr-Cullen Co., 901-09 Ramsey st. NE., 3-story brick warehouse; contract not let; address owner, 10th av. and Marshall NE.	10,000
Swift & Co., 215-17 N. 5th st., alterations and fireproofing part of cold storage and warehouse building; Zenith Construction Co., builders; address owner, 616 3d av. N.	25,000
Swanson, Albert L., 1611 Newton av., 1½-story frame dwl.; C. P. Johnson, builder; address owner.	2,250

A. R. VanDyke, McKnight building, is preparing plans for a private garage, for M. P. Lamoureux, 4741 Emerson av. S.; tile, heating and wiring, stucco, comp. roof, owner lets work; also is preparing plans for a brick porch at the residence of C. E. Van Nest, 4525 Fremont So., brick columns, tile floor, shingle roof, wiring, 13x26, hardwood ceiling; also plans for remodeling residence of Dr. J. A. Watson, 2100 Irving So., entire exterior stuccoed, sun room, sleeping porch, owner will let work; also preparing plans for private garage for E. A. Strong, Birch Bluff, Minnetonka, frame and stucco, wiring, shingle roof, owner takes figures.

University board asks \$585,600 for new buildings and equipment of main and farm schools and sub-stations during next two years, from the legislature; main campus building and equipment, 1915-16, \$221,500; 1916-17, \$120,500; buildings and equipment, university farm, 1915-16, \$85,000, 1916-17, \$55,500; sub-station, \$53,600 and \$47,500; for electrical engineering department building, \$80,000 is asked.

Contracts let on machine shop, 3-story and basement, 66x220 and 66x116, 3d av., for Pillsbury Flour Mill Co.; general to H. N. Leighton Co., 127 S. 10th st.; structural iron and steel to American Bridge Co.; reinforced concrete to C. A. P.

Turner, Jewelers' Exchange building; owner wants bids on electric work; general contractor desires bids on painting.

C. E. Bell, architect, Security Bank building, will prepare plans for a Commercial garage, at 214-216-218 Third st. So., for A. W. Harwood, 2644 Aldrich av. S., 66x176, 4-stories, foundation for 8, steel frame, terra cotta and brick face, reinforced concrete floors, comp. roof, Fenestra sash, steam heat, plumbing, wiring, wash rack, etc.

Chas. L. Pillsbury, consulting engineer, Metropolitan block, is preparing mechanical equipment plans for a cell house, for the state hospital at St. Cloud, may be out in three weeks; C. H. Johnston, architect, Capital Bank building, St. Paul; owner State of Minnesota, state board of control the Capitol, St. Paul.

The county board has authorized the county surveyor to make surveys and estimates for grading, including culverts and bridges on France av., beginning at its intersection with Excelsior road and extending south to its intersection with Morningside road, also to make a survey on France av from its intersection with road No. 2 to its intersection with road No. 1.

A turning basin in the Mississippi river harbor near Washington av. bridge is provided for in a war department report at Washington; cost about \$6,000. President Decker of the Civic & Commerce Association presented the request for the improvement to the department officials.

A. W. Duncan, new owner of 4th av. S. and 6th st., northwest corner, 66x150, will build 4-story concrete business building; work start April 1; leased from Murphy Travis Printing Co., 6th and 4th; O'Brien & Harris, real estate, 232 McKnight building.

Reegnts' request for two-year period, 1015-17, at main portion, state university, include: \$100,000 for contagious wards and annex to hospital; electrical engineering laboratory, \$80,000; remodeling library, \$10,000; enlarging heating plant and lining tunnel, \$55,000.

A flat building for 24 families will be built by Albert E. and John S. Molin, Metropolitan building, at 1309 Stevens av., 40x113, brick veneer and plaster veneer, concrete foundation, steam heat, modern, \$10,000; private plans, owners will build.

Bertrand & Chamberlin, N. W. building, have furnished plans for four-flat at 2606 Cedar for Nels A. Mortenson, 2602 Cedar; 36x56, concrete block foundation, hot water heat, modern, \$5,500; day labor.

Geo. L. Wertman, 419 Metropolitan building, is building a frame dwelling at 3712 11th av. S., concrete block foundation, 24x38, hardwood trim, plumbing, gas; P. L. Ludwigson, contractor.

Kees & Colburn, architects, Donaldson building, furnished plans for alterations in the banking room of the Northwestern National Bank; balcony; plans will be submitted to directors.

About \$100,000 will be required for improvements in the crematory and municipal electrical plant; additional machinery and incinerator; 200 more arc lights proposed.

Manager A. G. Bainbridge Jr., of the Bainbridge (Bijou) theater, and others, have incorporated the Bungalow Theater Co., to own and operate theaters; capital \$50,000.

Glen L. Saxton, architect, Plymouth building, has furnished plans for a frame cottage in Florida, for J. R. Stewart, 317 Chamber of Commerce building, Minneapolis.

Carl C. Berg, 1522 Crystal Lake av., will build a shop at 1525 Crystal Lake av., 1-story, 45x90, concrete blocks, \$2,500; blacksmith contract not let.

Contract awarded by the city to the Corrugated Bar Co., Buffalo, for reinforcing steel of 3d av. bridge at \$1.10 per 100 pounds, f. o. b., Pittsburg.

M. & St. L. will make improvements in terminals here, cost \$100,000, freight transfer and addition to roundhouse, new tracks.

Bidders on bridge 21, Sansbury Point, Lake Minnetonka, were: J. R. Johnson, \$1,284; Olmholz & Ax, \$2,089.

Contract let to Twin City Scenic Co., Minneapolis, for the drop curtain in high school, at Ely, Minn.

Swift & Co. will fireproof and alter plant at 215 N. 5th, \$25,000, contract to Zenith Construction Co.



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### BIDS FOR SCHOOL BUILDING.

Sioux Falls, S. D.

Notice is hereby given that sealed proposals for the complete construction of a school building at Sioux Falls, South Dakota, to include all labor and material, will be received by the Board of Education of the Independent School District of the City of Sioux Falls, at its office in the High School Building in said city, until four o'clock in the afternoon of the 12th day of February, 1915. All bids must be in strict accordance with the plans and specifications for said building prepared by Patton, Holmes & Flinn, architects, which may be seen at the following places, to-wit: the office of the said Board of Education in the city of Sioux Falls, South Dakota; the office of the said architects at Number 8, South Dearborn Street, Chicago; the Builders' Ex-

change, Minneapolis, and F. W. Dodge Company, Minneapolis.

A certified check for one thousand dollars (\$1,000.00) must accompany each bid. All checks of unsuccessful bidders will be returned to them within three days after the awarding of the contract. The successful bidder will be required to enter into a contract satisfactory to the said Board of Education and to give a bond satisfactory to said Board in the full amount of the contract price, which bond shall in all respects comply with the laws of the state of South Dakota.

The right is reserved to reject any or all bids.

Board of Education of the Independent School District of the City of Sioux Falls, South Dakota.

By W. B. FULLER,  
Clerk.

## PROPOSALS

### BIDS FOR EXTENSION OF STREET LIGHTING SYSTEM.

Grand Forks, N. D.

The undersigned hereby gives notice that sealed proposals for the laying of underground wires and the installation of lamp posts in the extension of the Ornamental Street Lighting System of Grand Forks City, North Dakota, including all labor and material, will be received by W. H. Alexander, City Auditor, until the hour of 5 p. m., on the first day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by J. J. Smith, City Engineer of Grand Forks City, N. D., which may be seen at the office of the City Auditor of said city on and after January 20, 1915, and may also be seen on application to J. J. Smith, City Engineer.

A certified check for \$500, payable to the order of the Mayor of Grand Forks City, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in a sum equal to amount of the bid, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) W. H. ALEXANDER,  
City Auditor,  
Grand Forks, N. D.

(Continued on page 18.)

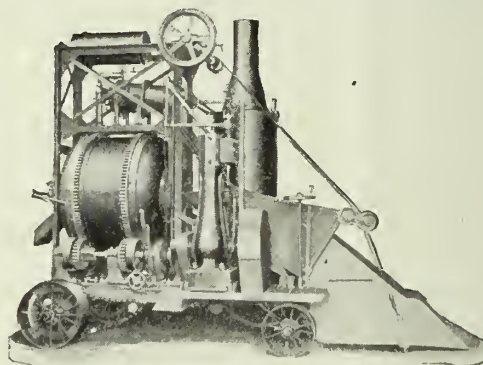
"CONCRETE FOR PERMANENCE"

THE choice of a cement and a friend  
— how much alike  
— the good stand  
the test of time.

*"The Standard by which all  
other makes are measured"*



## The Mixer that Proves It's Quality by It's Record



The Koehring Hot Mixer for Bituminous Pavements.

HOW much you must charge up to depreciation and repairs are as important questions in determining the real cost of a mixer as the initial expense.

How much of your labor cost is due to delays directly traceable to the mixer is another important item to consider when comparing initial cost.

It's the Koehring Quality Mixer that proves its dollar-earning qualities by its record of continuous service and low cost of maintenance.

Catalogue 19, the most complete Mixer Catalogue, gives details.

**KOEHRING MACHINE COMPANY, Milwaukee, Wis.**

H. B. JONES, Dist. Mgr.  
350 Security Bank Building Minneapolis, Minn.



## ST. PAUL, MINN.

404 Scandinavian American Bank Building.  
Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

## Building Permits.

Anna M. Becken, 1609 E. Minnehaha, 1½-story frame dwl., Minnehaha near Germain; H. T. Becken, builder.....	1,500
Anna M. Becken, 1-story frame dwl., Minnehaha near Germain; H. T. Becken, builder.....	1,200
Mannheimer Realty Co., 2-story stone and concrete basement, St. Peter near 6th; F. C. Norlander, builder.....	65,000
E. J. Allen, 2080 Grand av., builder, 1½-story frame dwl., Grand near Cleveland.....	2,000
Villaume Box & Lumber Co., builders, 1-story brick garage, Hyde near Indiana.....	1,200
G. L. Carrier, 1065 Hague, 2-story frame flats, Seloy near Hamline; C. O. Hardwick, builder.....	8,000
Claus Alvin, 615 Jessamine, builder, 1½-story frame dwl., Maryland near Payne.....	1,800
Plans are prepared and bids being taken on club house, Nic. Trossen, 375 Jay, builder, 1½-story frame dwl., 915 Rondo.....	2,800
H. L. and F. W. Lang, 1422 Van Buren, alterations and repairs to dwl., 1422 Van Buren.....	1,000
Vander Bee, 1312 Selby av., 1-story frame ice house, Hopkins, near Brunson.....	1,000
J. F. Hanzalek, 1-story frame dwl., St. Clair near Hamline; Haxton Cons. Co., builders.....	1,500
James E. Gates, 233 Macalester, 2-story frame dwl., Macalester near St. Clair; Nels Johnson, builder.....	4,000
H. O. Nielsen, 219 W. 7th st., 1-story brick store, 211 W. 7th st. near Chestnut; N. P. Hansen, builder.....	1,500
Sam Sengstad, 3140 29th av. S., Minneapolis, builder, 1½-story frame dwl., Cleveland near Ashland.....	3,500
Tresa M. Miller, 226 Iglehart, 3-story brick store and flats, Summit near 6th; Madsen Bros., builders.....	25,000

F. H. Ellerbe, architect, Endicott building, is preparing plans for a modern residence at Eau Claire, Wis., for E. E. Fleming; owner taking figures, 2-story, stucco, hot water heat, brick mantel, tile baths, vacuum cleaner; also plans for a modern residence for Dr. David Berkman, Rochester, Minn., 2-story, stucco, hot water heat, tile bath, brick mantel, all modern; plans ready in 30 days; also plans for a modern residence in St. Anthony Park, for Geo. S. Eddy, 2232 Carter av., 2-story, stucco, modern, hot water heat, brick mantel, tile bath; plans ready in one month.

F. H. Ellerbe, architect, Endicott building, is preparing plans for a large modern residence for Geo. M. Palmer, Mankato, Minn., J. B. Nelson Co., contractors, stone, vapor heat, vacuum cleaner, slate roof, tile baths, marble mantels, tile, hardwood and composition floors; \$15,000

F. H. Ellerbe, architect, Endicott building, is completing plans for the addition to Kahler hotel, Rochester, Minn.; spring work; contract awarded on remodeling store, 64 E. 7th st., to John M. Carlson, 227 W. 5th; plate glass, wiring, steel ceiling; P. Gourard, owner, 64 E. 7th st.

F. H. Ellerbe, architect, Endicott building, is working on plans for a large modern residence, in Lake of the Isles, Minneapolis, for Prof. Olmstead, university of Minnesota; stucco, vapor heat, tile baths, brick mantel, vacuum cleaner; out for figures in 30 days.

F. J. Donohue, architect, Gilfillan building, is preparing plans for a parochial school at Waucoma, Iowa, for St. Mary's parish, 4-room brick, 2-story, steam heat, modern, finished basement; Rev. Martin Hogan, pastor; plans out in a week; figures at Waucoma.

F. H. Ellerbe, architect, Endicott building, states shortening of old Mannheimer department store, Robert st., will begin in a few weeks; cost \$50,000; subcontracts being let by Geo. J. Grant Co., general contractors, N. Y. Life; will remain a department store.

Buechner & Orth, architects, Shubert building, will have bids in this week, on steel and terra cotta, for the Arcade addition; plans out next week for the plumbing, heating and wiring, of the Mason City, Iowa, hospital

Chas. A. Pear, Pittsburgh building, was selected in a contest, as architect for a large modern church in St. Paul; stone, \$45,000; all modern; spring work; seats 660; finished basement; name withheld; details later.

Every ward in St. Paul showed a good growth and building record in 1914, total, permits for the year, 3,741, total valuation, \$14,718,696; total for 1913, \$9,456,450.

Thos. G. Holyoke has plans in progress for Town and Country club house improvements; locker rooms, grill room; J. P. Elmer, president, 614 Grand av.

Osman Temple, Mystic Shrine, and other organizations are raising \$100,000 in the state for a Masonic old people's home; work may start this year.

Angus Cameron, Liberty restaurant, new owner of Sherman hotel, will add two stories and make other improvements; cost \$20,000.

City Architect Hausler, inspected Central Police station

to prepare plans for remodeling as recommended by state board of control.

G. L. Carrier, 1065 Hague av., has secured a permit for an apartment house on Selby between Hamline and Albert; 2-story, \$8,000.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

\*Building Permits—E. Nelson, frame dwelling, E. 8th st. and 16th av., \$2,000; F. W. Jenson, frame dwelling, W. 4th st. and 37th av., \$1,000; G. Nyholm, frame dwelling, Magellan st., and 47th av. W., \$1,000; T. J. Jenson, frame dwelling, Bristol st., and 60th av. W., \$4,000.

\*At the regular meeting of the city commission on the 1st inst., three pavements were ordered constructed this year: Woodland av., Minnesota Point and E. 9th st., at a total cost of about \$145,000. The Minnesota Point pavement to be of concrete, costing about \$85,000; the E. 9th pavement of crushed stone, costing about \$30,000, and the Woodland av., pavement to be decided on later; the following estimates being prepared by the city engineer: sandstone, \$30,348, asphalt, \$25,000, bitulithic, \$24,800, concrete, \$22,840, macadam, \$14,865, and bituminous concrete, \$23,500.

\*First reading was given to an ordinance appropriating \$8,500 for the purchase of a new motor truck and an automobile for Chief Randall, this to cover the total expenditure for new equipment for 1915.

\*Second reading of ordinance appropriating \$9,000 for the purchase of road oil for the coming summer.

\*Resolutions were passed ordering the construction of a sanitary sewer in Albion st. from Central av., 340 feet west, and a sanitary sewer in 60th alley W., from Huntington st., to Tacony st.; both jobs to be done by day labor.

\*Bids for the new armory building, to be erected 13th av. E. and London road, Kelly & Williams, architects, First National Bank building, were opened by Col. F. E. Resche, of the 3d regiment, in the office of the architects, Feb. 2, and resulted as follows: Geo. H. Lounsbury, \$107,410; Fawcett & Bergstrom, \$107,995; Jacobson Bros., \$108,000; McLeod & Smith, \$114,070; Bowe-Burke, \$119,319; Zenith Construction Co., \$119,450; D. H. Clough & Co., \$128,856; J. F. Schleunes, \$141,000; work will be started just as soon as the contract is awarded and the building is expected to be finished next fall.

\*The contract for the Dickerman Investment Co. building, 1st av. W. and 1st st., 2-story brick, Holstead & Sullivan, architects, Palladio building, was awarded to Berquist Bros.; work has already commenced.

\*The school board of Proctor (near Duluth) announce that the contract for plans and specifications for their new brick high school which is to be erected this year, has been awarded to V. J. Price & Co., architects, Palladio building.

\*Bray & Nystrom, architects, in the Fidelity building, have dissolved partnership, Mr. Nystrom opening offices at 502 Palladio building, under the name of Carl A. Nystrom. W. T. Bray still retains offices 12th floor, Fidelity building.

\*Wagenstein & Giliuson, architects, have dissolved partnership, J. J. Wagenstein keeping the offices in the Providence building and E. Giliuson moving into office 311 Glencoe building.

## SUPERIOR, WIS.

The Northwest Oil Co., of city, will establish a branch house in Rhinelander, cost from \$10,000 to \$12,000.

Fire damaged plant of Superior Manufacturing Co., \$40,000; Harold Vebelin, Minneapolis, general manager.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

The Petit Salt Co., Clement M. Petit, secretary, Milwaukee, contemplates the construction of a dock, warehouse and salt manufacturing plant at Ludington, Mich., to cost \$1,000,000; application has been made to the war department for permission to build the dock.

The department of public works, Milwaukee, will close sealed bids, Feb. 9 ofr furnishing 800 tons of 6-inch and 200 tons of 12-inch class C water pipe; bond of \$7,600 or check for \$3,800; F. G. Simmons, commissioner of public works.

The Allis-Chalmers Manufacturing Co., West Allis, is taking bids for the erection of a brick and steel addition to be oc-

(Continued on page 21.)



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

### Proposal Advertisements For Bids

#### NOTICE TO BRIDGE CONTRACTORS. Mora, Minn.

Sealed bids will be received at the office of the County Auditor of the County of Kanabec at the Court House in the Village of Mora, Minn., until 2 o'clock p. m., February 16, 1915, for building the following bridges:

For building State Bridge No. 1607, on State Road No. 2, in the Town of Peace, in the County of Kanabec, State of Minnesota.

The superstructure will be 90 foot truss span, 18 foot roadway; concrete floor; on reinforced concrete abutments. Distance from top of floor to bottom of foundation about 20 feet.

For building State Bridge No. 1608, on State Road No. 5, in the Town of Southfork, in the County of Kanabec, State of Minnesota.

The superstructure will be 40 foot truss span, 18 foot roadway; concrete floor; on mass concrete foundation. Distance from top of floor to bottom of foundation about 15 feet.

For building State Bridge No. 1632, on State Road No. 2, in the Town of Brunswick, in the County of Kanabec, State of Minnesota.

The superstructure will be two 75 foot truss spans, 18 foot roadway; concrete floor; on reinforced concrete abutments and pedestal pier.

Separate bids will be asked on each bridge complete and for the steel alone.

Plans and specifications may be seen at the office of the State Highway Commission at St. Paul, Minnesota, or at the office of the County Auditor at Mora, Minnesota.

Each bid must be accompanied by cash or a certified check for not less than five per cent of the amount of the bid payable to the County Treasurer of said Kanabec County. All bids must be upon blank forms furnished by the undersigned.

The County Board reserves the right to accept or reject any proposal.

By order of the County Board of Kanabec County, Minn.

Dated at Mora, Minnesota, this 26th day of January, 1915.

(Seal.) A. V. SANDER,  
County Auditor.

#### MATERIAL FOR CHURCH.

Woonsocket, S. D.

The undersigned hereby gives notice that proposals will be received for 110 to 115 thousand best five red cedar shingles. Bids are also desired on the plastering and on the wooden and metal lath for the Church at Woonsocket, South Dakota.

Address L. G. TURGEON,  
Woonsocket, S. D.

#### NOTICE TO CONTRACTORS.

School Building, Jamestown, N. Dak.

Sealed proposals will be received by John G. Bensch, Secretary of the Board of Education, of Independent School District, of the city of Jamestown, North Dakota, up to the hour of two o'clock, p. m., on the 8th day of March, 1915, for the complete construction of a two-story and basement addition to and together with the remodeling of the present school building in the city of Jamestown, known as the North Side School Building (including complete mechanical equipment for the entire building), all to be in strict accordance with the plans and specifications for the work as prepared by Gilbert R. Horton, Architect. Plans on file at the

Minneapolis Builders' Exchange and at the office of the Architect, in the Citizens' National Bank Building, Jamestown, North Dakota.

All proposals must be made out in strict accordance with the outline form given in the specifications and each proposal must be accompanied by a certified check for 4 per cent of the amount of the bid; the checks to be made payable to Alfred Steel, President of the Board, and said checks to be forfeited to the Board in the event of failure of the accepted bidders to enter into satisfactory contract or to furnish satisfactory bond as required by law. The accepted bidders will be required to furnish bonds as required by the laws of the State of North Dakota and the same must be satisfactory to said Board of Education.

The Board reserves the right to reject any or all bids.

By order of the Board of Education of Independent School District, of the City of Jamestown, N. D.

By JOHN G. BENSCH, Secretary,  
of the Board of Education.

#### WANTED TO BUY.

Twelve Second Hand Tile Cars and 1 Transfer Car. These cars should be 8 feet long with 2 decks, for use on a 2-foot gauge track.

ARLINGTON CEMENT STONE WORKS,  
Arlington, Minn.

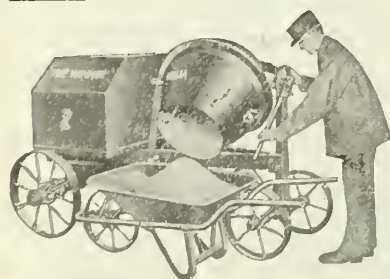
#### ROLLER WANTED.

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTLE, Sioux City, Iowa.

#### SECOND HAND ROLLER WANTED.

Wanted: One 5-ton Tandem Roller. Must be in good condition. Quote lowest cash price. Box 11, Improvement Bulletin.

## WINNER MIXERS



**Are The Kind  
That Stand the  
Service Test**

Ask us why

CHARLES HOUSTON  
District Manager

THE  
Cement Tile Machinery Co.  
554-58 PLYMOUTH BLDG.  
Minneapolis, Minn.  
Phones: Nicollet 52. Annex 52

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Cornice Skylights Eaves Trough  
Slate Roofing Corner Beads Conductor Pipe  
Ventilators Building Papers Elbows  
Steel Ceiling Tarred Felt Roofing & Siding

Sheet Metal Estimates Furnished

**H. C. THOMAS  
& BROTHER**

**Sheet Metal Works**

119 North Third Street.

La Crosse, Wis.

**STRUCTURAL STEEL and ORNAMENTAL IRON  
BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE**

**HAACKINSON & BEATY CO., SIOUX CITY, IOWA**

ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS



## Steam Pump For Sale

For Sale—One 16x10 $\frac{1}{4}$ x12 Buffalo Steam Pump, 8-inch suction and 7-inch discharge. Pump is in good condition and can be seen in operation the next few days only.

## Oswald & Winston

507-S Globe Bldg. Minneapolis

### BRIDGES. Nelson, Nebr.

Bids will be received at Nelson, Nebr., on or before March 3rd, 1915, for all bridges to be built in Nuckolls County, Nebr., for year 1915, also on state aid bridge, about one mile west of Superior. For information, write County Clerk E. E. Hedgcock, Nelson, Nebr.

### WATERWORKS.

#### Albany, Minn.

#### Notice to Contractors.

Proposals will be received at the office of the village recorder of the village of Albany, Stearns County, Minnesota, until Feb. 10, 1915, 8 p. m., for the drilling and necessary casing of the well for the village of Albany, Minnesota.

On Feb. 10th, 1915, the village of Albany will receive bids on a 10 and 12 in. well, 160 ft. deep or more.

Bidders will state a price per foot for both 10 and 12 in. strainer.

Contractors must furnish all tools, la-

**FOR SALE AT A BARGAIN.**  
One 300-H. P. Twin City Cross Compound Corliss Gilder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.

**HOTEL ACCOMMODATION FOR SALE.**  
\$150.00 worth of room accommodation at the best hotel in Minneapolis for sale at reasonable discount. Can be used any time after Dec. 6, 1914. Will sell all or any part. Save money on your traveling expenses by writing us.  
**THE IMPROVEMENT BULLETIN**  
Minneapolis Minn.

**FOR SALE**  
The entire contracting outfit of R. A. Elzy, deceased, for sale, including team outfits, paving outfit, drag lines, pumps, engines, wagons, graders, wheelers, slips, etc. Everything must be sold to settle estate. Address  
**RACHEL A. ELZY and  
WM. J. ELZY, Executors**  
MARSHALLTOWN, IOWA

bor, machinery and casing for said well. 12 in. casing must weigh 45 pounds per foot.

10 in. casing must weigh 35 pounds per foot.

Furnishing and placing 12 in. casing price per ft.

Furnishing and placing 10 in. casing, price per ft.

Contractor must furnish test pump with a capacity of 200 gall. per minute and test said well to the satisfaction of the village council.

Contractors must state price for all time consumed in testing, per hour.

Contractor must furnish a good and sufficient bond in the sum of \$1,500.00.

Bidders must furnish a certified check in the sum of \$500.00, made payable to Thos. Tamasek, village recorder of the village of Albany, Minnesota, and should the successful bidder fail to execute the contract within 10 days from the date the successful bid is accepted by the council, then said certified check shall be

forfeited as damages for the failure to enter into said contract.

The village council reserves the right to reject any or all bids, or accept any that it may deem expedient and for the best interests of said village.

Dated at Albany, Minnesota, this 2nd day of Feb., 1915.

THOS. TAMASEK,  
Village Recorder.

## Free Help Wanted Advertisements

Wanted—Young man with building material experience preferred, to call on Northwestern architects and contractors regarding mortar material. BOX 50.

Engineer—Good all around designer of structural steel and reinforced concrete; several years' experience designing and estimating for general contractors. Box 1, Improvement Bulletin.

(Continued on page 21.)

The  
"Little  
Builder"  
—the  
Ball Bearing  
Concrete  
and  
Mortar  
Mixer

PRICE AS SHOWN  
**\$165**

There are bigger mixers than this, but none better. Dozens cost more without being worth more. If you want a mixer that will mix concrete and mortar better, quicker and cheaper than hand methods, that will last and does not necessitate a large expenditure, that will handle little or big jobs, that is convenient and efficient, then the **LITTLE BUILDER** will answer your every requirement.  
Built for the roughest, hardest service. Rugged and strong all through. Easy to handle.  
And the price! Any one can afford it. \$165.00 as illustrated; \$265.00 with Power Loader; Hoisting Attachment for building purposes, \$30.00.  
Get our complete catalog on concrete machinery and larger mixers.

## LANSING COMPANY

330 NORTH FIRST STREET :: :: :: MINNEAPOLIS, MINN.  
FACTORY; LANSING, MICH.



EASY TO SHOVEL INTO



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

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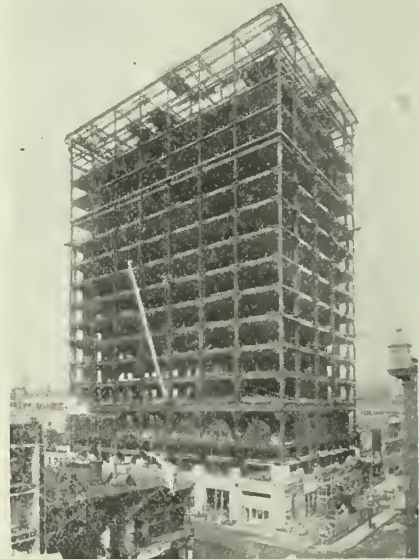
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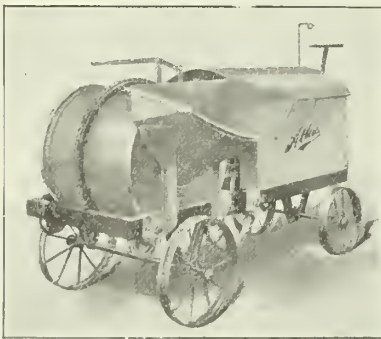


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# NOTICE TO BRIDGE CONTRACTORS. Winona, Minnesota.

February 2, 1915.

Notice is hereby given that sealed proposals will be received by the Council of the City of Winona, Minnesota, until the 1st day of March, 1915, at 8:00 p. m., for the construction of a New Approach from the Wisconsin side to the High Wagon Bridge across the Mississippi River at said City, in accordance with the plans and specifications therefore, prepared by L. P. Wolff, Consulting Engineer, now on file in the office of the City Recorder.

The proposed Approach will have a roadway 18 feet wide paved with brick and one concrete sidewalk 5 ft. wide and a total length of approximately 1700 feet, about one-half of this length being across an island and the remainder across the Wisconsin channel.

The plans embrace both steel and reinforced concrete structures and alternative bids will be received for these two types of construction.

All bids must be on blank forms furnished for that purpose and a certified check for \$7,500 must accompany alternative bids for both types of construction or a bid for the reinforced concrete

structure alone, and a certified check for \$6,000 must accompany a bid for the steel structure alone.

Certified checks must be on a bank located in the City of Winona and made payable unconditionally to the order of the City Treasurer of said City.

Plans and specifications may be seen and blank forms of proposal may be obtained at the office of the undersigned and at the offices of Engineering & Contracting, Chicago, Ill., and L. P. Wolff, Consulting Engineer, 1000 Germania Life Bldg., St. Paul, Minn. Extra copies of plans and specifications for either type of structure may be obtained from Engineer at Five Dollars (\$5.00) per set.

Rights reserved to reject any or all bids.

GEORGE W. HOFMANN,  
City Recorder.

SCHOOL.  
Max Bass, N. D.

The undersigned hereby gives notice that sealed proposals for the erection of a two-room and basement school building including all labor and material. A separate proposal for the Steam Heating Plant for same and a separate proposal for the purchase of the old School Build-

ing, 20x32 feet, 12-foot side studs, will be received by E. E. Cram, clerk of Michigan School District No. 25, until the hour of 2:00 p. m., on the 19th day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by Ed. White of Mohall, N. D., which may be seen at his office, at the office of E. E. Cram, Clerk, Maxbass, N. D., The "Monitor" office, Maxbass, N. D., or the Builders' and Traders' Exchange, Minneapolis.

A certified check for 5 per cent of the bid payable to the order of C. R. Tummonds, Chairman, Maxbass, N. D., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in double the amount of the contract price for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed.) E. E. CRAM, Clerk.

Place of letting, Clerk's Office, N. W. Corner of Section 11, T. 161, R. 82.

Date, March 19, 1915.

## MILWAUKEE.

cupied by the transformer shop moved from the Bullock works at Cincinnati.

Charles Breest was awarded the general contract for erecting a 3-store building for M. M. Schranz, 503 North av., at 12th st. and North av.; brick, 1-story, 35x45, costing \$5,000.

The department of public works, F. G. Simmons, commissioner, closes bids Feb. 9, for furnishing 15 tons of Omaha lead; bond of \$450 or check for \$225.

Val. A. Siebert, architect, 557 12th st., is making plans for six frame bungalows to be erected the northwest side; owner's name withheld; furnace heating.

Kamschulte & Webster, architects, 416 M. & M. Bank building, are about to take bids for a frame duplex for S. H. Pfander, on 25th av. and Scott st.

Leiser & Holst, architects, 402 Germania building, are making plans for remodeling the residence of Frank Krehla, Racine st., at a cost of \$2,000.

Chas. J. Keller, architect, 517 Germania building, is preparing plans for a frame duplex for Walter Tesch at 1517 Cherry st., to cost \$5,500.

Spanheimer Bros., contractors, 1120 26th st., have the contract for erecting a frame duplex at 44th st. and North av., to cost \$4,500; 28x45.

John Menge, Jr., architect, 605 Matthews building, is making plans for a \$5,000 bungalow to be erected at Hales' Corners, Milwaukee county.

## SIoux CITY, IOWA

Storm sewerage will be placed in N. Riverside as soon as possible as well as in Leeds, both suburbs of the city; concrete paving will be done on Iowa and 14th sts. and Riverside av. This with other paving announced previously will call for an expenditure of more than \$200,000.

Architects Beuttler & Arnold are making sketches for the new Gilman block to be on the corner of 6th and Pierce sts. No announcement has been made as to the value of the structure. W. S. Gilman is the owner of the block; Orkin Bros. will have lease of the place.

Lytle Construction Co. will draw plans and construct a lodge hall and opera house at Jolley, Iowa, for the Modern Woodmen. The place will be 2-story, frame, 80x40, at a cost of \$10,000.

A new technical high school will be built at Missouri Valley, Iowa, at a cost of \$80,000. This will be 3-story, concrete and brick, 140x90; F. E. Colby of Sioux City is the architect.

Sale of the \$500,000 court house bonds has been made to Geo. M. Bechtel & Co. of Davenport, Iowa. This firm agreed to take the bonds at 5 per cent, pay a premium of \$13,257 and furnish the blank bonds. The bonds will be delivered immediately upon approval of the proceeding of the board of

supervisors in accepting the bid. Architect W. L. Steele is preparing plans for the building.

## PUBLIC BUILDINGS

Iowa, Mason City—Plans completed for comfort station and city will probably build in the spring. Address city clerk.

Iowa, Packard—Preliminary plans under way for city hall building, to cost \$4,000; brick, stone, cement, steel. Address city clerk.

Iowa, Primghar—Announced that architect will be selected at once for proposed \$150,000 court house building; bonds voted. J. B. Stamp, auditor of O'Brien county.

Iowa, Rock Rapids—Competitive plans submitted for court house building. Minneapolis and other architects interested. E. J. Reigel, auditor of Lyon county.

Iowa, Sioux City—Tentative plans for the proposed court house for Woodbury county have been submitted to the board by W. L. Steele, architect; two plans submitted, both of the office building type; six months will be required to draft the plans.

Minn., Akely—City hall and jail burned; loss \$4,000; was built of concrete blocks.

Minn., Mountain Iron—C. K. Shand has been selected as architect for the proposed city hall; when prepared they will be submitted to Bray & Nystrom, architects, in the interest of the mining companies owning property in the village; 50x100, 2-story, buff colored brick, terra cotta trimmings; hoped to let contract for construction on Feb. 16.

Mont., Butte City—Chamber of Commerce will probably ask legislature for authority to issue bonds for \$50,000 to provide furnishings for the jail building. Address city clerk.

Okla., Oklahoma City—The State Capitol commission writes that bids will be readvertised for labor on the state capitol building, as the small number of bids received do not warrant the commission in letting the contract.

S. D., Castlewood—Proposition to bond Hamline county for \$80,000 court house carried at special election; Guy Osbon, county auditor.

Wash., Seattle—Reported bids will be asked by the county commissioners in March for a 3-story, brick and frame juvenile detention home; cost \$15,000.

### BIDS WANTED.

Iowa, Garner—Bids received by Jennie Elder, secretary library board, until Feb. 10, for city library building; plans for \$10 deposit; check with bid for 5 per cent.

Wash., Seattle—Bids received by C. E. Remsberg, secretary, Central building, until Feb. 17, for construction of a 1 and 4-story, ice and fish storage building; probably cost, \$50,000.

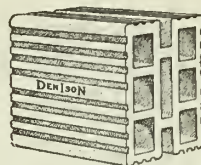
Wis., Chippewa Falls—Bids received by W. A. Calder, secretary library board, until 3 p. m., Feb. 13, for repairs to be



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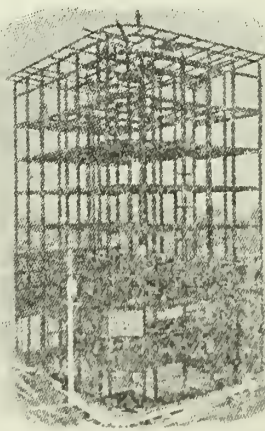
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CLINTON - IOWA



made to public library; separate or total bids on wiring and lighting, painting and decorating and repairing building.

**Wis., Jefferson**—Bids received by John W. Porter, chairman special committee on jail, until 10 a. m., Feb. 5, for the mason work, heating and ventilating, plumbing and painting, also for new cell work, all required in the remodeling of the county jail. Address bids to John F. Welch, county clerk.

**Wis., Menomonie**—Bids received by S. S. Sivertson, Colfax, until 3 p. m., Feb. 11, for heating plant for court house.

**Wis., Shawano**—Bids received by Arthur Mathwig, secretary, until 2 p. m., Feb. 17, for library building, brick, \$10,000; 34x60, 1-story, slate roof, concrete foundation, steam heat; Claude & Starck, architects, Madison, Wis.

**Wis., Sheboygan**—Contract to Winter Bros., city, for fixtures for county clerk's office.

#### CONTRACTS AWARDED.

**Wash., Aberdeen**—Contract to Pat Manning, Chehalis, for new post office at this place at \$9,745; lighting, heating, plumbing, will bring cost up to \$20,000.

**Wis., Menomonie**—Contract to Ole H. Klever, Elk Mound, Wis., for addition to county court house at \$8,500.

**Wis., New Holstein**—Contract to John Hay, city, for carpentry and sheet metal work on jail building.

**Wis., Oshkosh**—Contract to John F. Euler for proposed new bath house at \$1,075. Other bidders were: C. R. Meyer & Sons Co., without plumbing, \$1,596, including plumbing \$1,782; Fluor Brothers' Construction Co., except sewer and plumbing, \$1,147; Walter Hansen, complete, \$1,293; P. O. Meyers, complete, \$1,655; P. L. Peterson, complete, \$1,242; Fred W. Hoppe, without plumbing, \$1,205, including plumbing, \$1,395; Adolph Grohschrenz, without plumbing, \$1,022, including plumbing, \$1,208; William O. Heilsberg, complete, \$1,229; 40x46, pine and hemlock, three-ply composition roof, 32 rooms, two toilets, combination office and locker.

### HOTELS AND HOSPITALS

**Ida., Sandpoint**—H. E. Krebs will remodel Lennox hotel building.

**Iowa, Ainsworth**—Hotel burned; total loss.

**Iowa, Delaware**—Inside of frame hotel badly burned; furniture mostly saved.

**Iowa, Sioux City**—Several architects are reported as preparing preliminary sketches for building for the Shesler Deaconess' Home of the M. E. church; Rev. H. E. Hutchinson, chairman, building committee.

**Mich., Menominee**—Bids will be taken by P. Sibenaler, about March 1, on the superstructure of the proposed almshouse for Menominee county; 40x120, 3-story and basement, \$15,000; Derrick Hubert, architect, Spies building.

**Minn., Cass Lake**—Seeley & Sultor have begun work on an addition to their summer hotel on Star Island; large number of new cottages to be built, also.

**Minn., Duluth**—Garfield hotel, owned by Andrew Nelson, damaged by fire to amount of \$2,000.

**Minn., Mankato**—Meeting of the members of the county boards of Blue Earth, Brown, Nicollet, Watonwan, Le Sueur, Waseca, Faribault and Martin, on April 2, to further consider the project for a jointly owned tuberculosis hospital.

**Minn., Redwood Falls**—T. E. McAllister has made plans for a large addition to the Kahler hotel, work to begin about March 1; 30x60, 3-story, brick.

**Minn., St. Anthony Park**—Bids will soon be called for on a home for returned foreign missionaries of the Norwegian church; plans accepted; cost about \$4,000. Mrs. O. O. Stageberg, Red Wing, for particulars.

**Mont., Baker**—Hotel building proposed by company of which C. J. Wagenbreath of Miles City is a member.

**Neb., Fremont**—Members of Commercial club moving for a new hotel; O. F. Turner appointed chairman of committee to investigate sites, prepare draft of plans, and secure all needed information and report; address secretary of the club.

**Neb., Kearney**—State board of control has been reviewing plans for proposed new hospital state tubercular home, estimated to cost \$40,000; J. H. Craddock, architect, Omaha, Neb.

**S. D., McIntosh**—Standing Rock hotel burned; loss, with furnishings, \$25,000.

**Wash., Seattle**—Building may be erected for home for girls; address Miss Jessie M. Carson, one of the executors of the estate of E. Henry Wemme.

**Wis., Dorchester**—Hotel and saloon owned by Vincent Wuest burned and total loss; will rebuild.

**Wis., Jefferson**—Plans will probably not be drawn until spring for addition for baths and toilets at county insane asylum; W. E. Voigt, superintendent.

**Wis., Kenosha**—Sketches for the proposed tuberculosis sanitarium for the county will probably be received next month by R. H. Jones, county clerk; 2-story and basement, \$20,000.

**Wis., Madison**—County commissioners considering hospital on county farm to cost \$7,000; plans approved by state board; G. J. Fjelstad, county clerk.

**Wis., Osceola**—John Laventure, proprietor of hotel recently burned, will rebuild in the spring.

**Wis., Racine**—A. C. Kappel, Racine, is the lowest bidder on the new Racine Y. M. C. A. building, to cost \$175,000, with a bid for the general contract of \$81,200; P. H. Lorenz, Moline, Ill., next low bidder at \$83,780; the building proper will cost \$131,000; Chandler & Park, Racine, architects.

**Wis., Union Grove**—Plans ready about Feb. 4, for home for feeble-minded, cost \$350,000; M. J. Tappins, secretary state board of control, Madison, Wis.

#### BIDS WANTED.

**Minn., Red Wing**—Bids received by state board of control, capitol building, St. Paul, Minn., until 2 p. m., Feb. 9, for altering east wing of boys' dormitory into a hospital, at the state training school; officially advertised in the Improvement Bulletin.

**Ore., North Bend**—Bids to be asked for at once by Architect Tourtelotte, Rothchild building, Portland, for construction of Simpson hotel here; 100x120, outer walls of concrete, inner walls of fire resisting material; cost, \$75,000 without furnishings.

#### CONTRACTS AWARDED.

**Minn., Amboy**—Contract to Ben and Amos Fisk for the new plate glass front for the hotel building; steam heating plant to Arthur Fisk.

### THEATRES AND HALLS

**Iowa, Audubon**—R. B. Hayes will remodel new garage into a modern ground floor opera house.

**Iowa, Clinton**—The Family theatre has been purchased by August Bossen and will be rebuilt and operated as a picture theater.

**Iowa, Fort Dodge**—Committee of Redmen's lodge reported in favor of buying site and erecting 3-story building. Address secretary of order.

**Iowa, Garner**—Lyric theater badly damaged by fire; loss, \$1,000. Mr. Healey, owner.

**Iowa, Jolley**—Lytle Construction Co., Sioux City, will prepare plans for new opera house and lodge room at Jolley, to be the property of Modern Woodmen and R. N. A. lodges; 80x40, 2-story, \$10,000.

**Iowa, Lamotte**—Reported plans will be made in the spring for hall and club building for Columbian order. Address secretary.

**Iowa, Lansing**—Architect Seam has shown the Commercial Club plans and probable cost for a new opera house, to cost about \$16,000.

**Iowa, Sioux City**—Elks building committee authorized to select architect for new building; cost \$100,000. A. F. Nash, chairman of committee.

**Iowa, Tipton**—W. J. Moore, chairman of committee having charge of building a combined opera house and business block, cost about \$25,000; store rooms in front, lodge quarters for Odd Fellows, and opera house in rear. Architect not employed.

**Minn., Hayfield**—C. A. Watkins, Nichols, Iowa, has purchased site and in the early spring will begin erection of a 2-story brick building; second story to be an opera house and picture theater, lower story for stores.

**Minn., Thief River Falls**—J. O. Lien and Alfred Heen, Grafton, N. D., will build a new theater here; fireproof, modern.

**Mont., Glendive**—Preliminary steps taken to secure Carnegie library; site secured. Address secretary Women's club.

**Neb., Kearney**—Architectural sketches under way for a theater building on the site of the present Crescent theatre. Mr. Keens, owner.

**Neb., Omaha**—Reported plans under way for a contemplated theater to be owned by Jacob E. Slank; cost \$300,000. A. P. Tucker & Co., agents for lessee.

**N. D., Carrington**—The Commercial club is planning to build a civic headquarters building to cost from \$15,000 to \$20,000; address secretary of the club.

**N. D., Kildeer**—Citizens are considering erection of a modern 2-story building to be used as a dance hall, opera house and athletic club room. Address the mayor.

**Ore., Portland**—Moose lodge has purchased site for location of 6-story temple; estimated cost, completed and



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96 Second Street, Milwaukee, Wis.

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equipped, \$125,000. **Geo. R. Funk**, vice president of lodge.

**S. D., Dixon**—The Bohemians of the surrounding country will build a lodge hall in Dixon, work to begin as soon as spring opens; address the mayor.

**Wis., Manitowoc**—Eagles have decided to buy site for lodge building; **Henry Groth**, chairman, finance committee; 3-story, brick, stores on first floor, club rooms and offices above.

**Wis., Neenah**—Plans will be considered by Masonic lodge for proposed temple; sketches prepared by local architect; 3-story and basement. Address secretary Quincy lodge.

**Wis., Rockwell**—The Alwood Lime Co. is planning to build a club house at the Alwood Lime plant; address the secretary.

**Wis., Sturgeon**—Directors of county fair considering building dancing pavilion, 40x80. **H. J. Hahn**, president.

**Wis., Waukesha**—New Colonial opera house damaged by fire to the amount of \$3,000. **Mr. and Mrs. Harry Jones**, managers.

#### BIDS WANTED.

**Mont., Great Falls**—Bids being taken by **Geo. H. Shanley**, associate architect, city, on **Y. M. C. A.** building; 4-story and basement.

**Wis., Kenosha**—Bids received by **Leo. L. Flasch**, secretary of **F. O. E.** lodge, during week of Feb. 8, for club house; 50x100, 2-story, wood joist, composition roofing, steam heat, \$30,000; **Jos. Lindl**, architect, city.

#### CONTRACTS AWARDED.

**Minn., Goodridge**—Contract to **Peter Peterson** for 2-story building, with stage and hall, for theaters, etc. Owner, **Mr. Johnson**.

**Wash., Tacoma**—Contract to **Cornell Bros.**, **Savage-Scofield** building, for \$100,000 Elks building; 75x112, 4-story, reinforced concrete with cement face; contracts later for plumbing, heating, electric work and elevator.

## MILLS AND FACTORIES

**Alta., Cardston**—The Cardston Milling Co.'s plant has been purchased by the Ellison Milling Co. of Raymond, Alta., who will enlarge and remodel flour mill.

**B. C., Revelstoke**—Fire destroyed the Forest Mills of British Columbia, Ltd., owners will rebuild in spring.

**B. C., New Westminster**—The Mackie Mill & Mercantile Co. of Gettysburg, Wash., will commence erection of a shingle mill, capacity 200,000 per day.

**B. C., So. Vancouver**—Standard Refining Co. of Edmonton, Alta., may build a branch factory for manufacture of oils and greases; cost \$4,000.

**B. C., Vancouver**—Specifications for second unit of \$5,000, 000 ship-building plant on Lynn Creek have been submitted to Ottawa for approval; construction on unit to begin in about three weeks, Dominion Shipbuilding & Drydock Co., 14 Canada Life building, owners.

**Colo., Arvada**—The Commercial Club reports that Dry Climate Tire Co., is planning to erect a \$25,000 factory here. Address secretary of club.

**Colo., Ft. Collins**—A modern brick building, 30x40, will be erected by **J. E. Smith** of Greeley, for a fertilizer plant; cost about \$4,000.

**Iowa, Davenport**—Fire destroyed Amazon Vinegar & Pickling works plant; loss about \$18,000; insured at \$7,000. **F. W. Smith**, president of company.

**Iowa, Perry**—Globe Manufacturing Co. plant burned; loss about \$120,000; insured \$40,000. **B. C. Dilenbeck**, president Globe Co.

**Mich., Marquette**—Fire destroyed formaldehyde plant of Pioneer Iron Co.; loss about \$50,000, partly insured.

**Minn., Albert Lea**—Albert Lea Fur & Hide Co. and the Hirsch Robe & Tanning Co. burned; loss about \$125,000.

**Minn., Duluth**—The C. B. Leidersdorf Tobacco Co. will erect a tobacco warehouse and factory; cost \$9,000; brick, 3-story, 30x120.

**Minn., Faribault**—**J. M. Thonet** will erect cement block factory here.

**Minn., Rochester**—The Ringe creamery burned; insured at \$2,700; will probably be rebuilt.

**Minn., West Concord**—Farmers of Berne are planning to erect a Farmers' Co-operative cheese factory.

**Mont., Billings**—**Wm. Shelman** of Peoria, Ill., plans erection of a vehicle plant.

**Mont., Kalispell**—Saw mill and planed owned by Christ Prestbye burned; loss about \$6,000.

**Mont., Malta**—**If M. Hollenbeck** can secure suitable site here he will erect a flour mill in the spring.

**Neb., Omaha**—The Farmers' Co-operative Creamery Co. on Harney between 8th and 9th sts. will erect a 3-story brick, 66x112 building.

**Neb., Omaha**—**Haskins Bros. & Co.**, soap manufacturers, will erect an addition to their plant, soon, 3-story, 42x116 and basement, brick.

**N. D., Cando**—Fire destroyed the feed mill and elevator of **James Surber**, loss total.

**N. D., Fargo**—The 3-story branch plant of the Ford Automobile Co., under construction, collapsed.

**N. D., Jud**—Fire destroyed the feed mill of **S. J. Wendblom**.

**S. D., Sioux Falls**—The Sulzbergers will erect a new \$15,000 plant in the spring.

**Wis., Bayfield**—Manager **Frank** of the Fruit Association may erect a pickle factory here.

**Wis., Boscobel**—**Parker-Hildebrand** creamery burned.

**Wis., Delavan**—**Delavan Bottling Works** plant burned. **John Keefe**, owner.

**Wis., De Pere**—The Western Steel & Brass Co. is having plans prepared for \$50,000 factory building, addition, 3-story and basement, 60x90, brick and steel, spring work.

**Wis., Emerald**—Fire destroyed the Co-operative Creamery Co.'s butter factory; loss about \$5,000; partly insured.

**Wis., Green Bay**—A pickle factory will be erected here by **Alart & McGuire**.

**Wis., Green Bay**—**Park-McCauley Co.**, of Chicago, are considering proposition of installing a paper mill here.

**Wis., Lindstrom**—Reported that new creamery, cost \$10,000 will be erected here.

**Wis., Luck**—**Boone Lake** creamery burned; insured at about \$1,621; will rebuild at once.

**Wis., Manitowoc**—Funds are being raised for the Atlas plant, 50x240, 1-story, except offices, which will be 3-story; **Chas. Frazier**, president; **F. X. Murphy**, vice president.

**Wis., Marinette**—**American Gas Construction Co.** have petitioned common council for franchise to construct a private gas plant; cost about \$52,000.

**Wis., Marinette**—**National Society of Equity** may build packing plant here, about \$250,000. **Francis Price**, interested.

**Wis., Marshfield**—The Marshfield Bedding Co., incorporated; capital, \$15,000; **Furstenberg Bros.**, **Martin Bros.**, and **John Diem**, incorporators.

**Wis., Marshfield**—Preliminary plans in progress for a 1-story laundry plant; cost \$5,000, for **Normanton Bros.**, **G. Krasin**, architect.

**Wis., Milwaukee**—The **Kearney & Trecker Co.**, West Allis, have contract for 120 milling machines for the Republic of France, war department, at \$120,000; shipments to begin at once.

**Wis., Milwaukee**—The **Magnus Co.** incorporated, capital \$50,000; **Chas. H. Duback**, manager, **Hewitt Manufacturing Co.**, brass foundry, Milwaukee; **Wm. F. Libau** and **John Jackson**, incorporators.

**Wis., Milwaukee**—The **Petit Salt Co.** is planning erection of \$100,000 dock and plant at Ludington.

**Wis., Milwaukee**—The **West Allis-Chalmers Manufacturing Co.**, Milwaukee, has been awarded the contract for furnishing and installing all the equipment for the new Manganese mill of the **Crimora Manganese Corporation** of Virginia. It will be the largest mill of this type ever constructed.

**Wis., Milwaukee**—The **Milwaukee Hydrostone Manufacturing Co.** will build a factory; 1-story, 40x100, steam heat, **G. Leopold**, architect.

**Wis., Milwaukee**—**Herman J. Fraser**, architect, Camp building, will take bids at once on \$35,000 factory and warehouse, Mineral and Barclay sts., for **Seeboth Bros.**, brick and concrete, 3-story and basement, 40x140.

**Wis., Mosinee**—Saw mill of **John Prehn**, at Halder, Wis., burned; capacity, 25,000 feet.

**Wis., New London**—**Farmers' Co-operative Packing Co.** will erect a 3-story plant, modern, capital stock \$250,000; plans furnished free of charge by government; **H. E. Burgess**, **T. R. Burgess** and **A. C. Wilkinson**, of Wausau, interested.

**Wis., New Madison**—**New London Roller Mills** burned, loss between \$8,000 and \$10,000; **G. R. Case**, of city, owner.

**Wis., Oshkosh**—A 3-story and basement mill, 80x194, to be erected by **Morgan Lumber Co.**, **J. M. Baker**, 520 Oregon st., taking bids; cost \$25,000; **Flour Bros.**, architects, 54 State st.

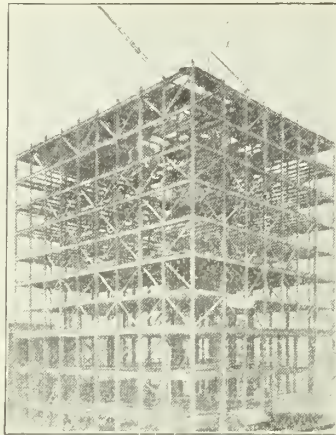
**Wis., Poplar Grove**—Fire destroyed the **Bowman Creamery** here, loss about \$10,000.

**Wis., Rhinelander**—The **Rhinelander Creamery & Produce Co.** plan erection of new building; brick or concrete, 2-story, modern.

**Wis., Ridgeway**—The **Paul cheese factory** burned; loss \$3,000, partly insured.

**Wis., River Falls**—**C. E. Hansen**, of city, and **Soren Eversen**, of Hudson, **Frank Jabusch**, of Deer Park, are committee to erect co-operative farmers packing plant here.





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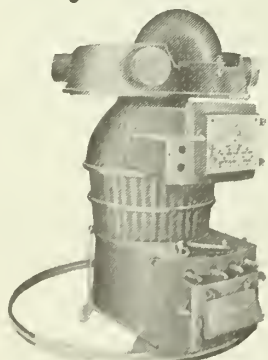
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**Wis., Shawano**—A new mill will be erected here; A. N. Haseltine, incorporator; capital \$40,000.

**Wis., Superior**—Damage of \$40,000 was done to the plant of the Superior Manufacturing Co.; Harold Veblen, Minneapolis, manager.

**Wyo., Lander**—George F. Earley of Belle Fourche, S. D., proposes to erect a flour mill here.

## CHURCHES

**Iowa, Fort Dodge**—About \$35,000 has been raised toward \$100,000 for new church for Sacred Heart parish; Rev. Edmund Heelan, pastor.

**Iowa, Vinton**—Baptist church burned, insured at \$12,000, will be rebuilt soon; address pastor.

**Minn., Thief River Falls**—Fire damaged the Catholic church, \$3,000, insured.

**Mont., Great Falls**—The Jewish people of city have taken steps to organize and establish a tabernacle.

**N. D., Olga**—Reported plans are being made for new church; cost about \$15,000; spring work.

**N. D., Willa**—Architects are drawing plans for Catholic church; address pastor.

**S. D., Roswell**—Fire destroyed the local M. E. church and parsonage; loss estimated at \$3,500; Rev. E. H. Lovett, pastor.

**Wis., Chilton**—German Catholic church burned.

### BIDS WANTED.

**Iowa, Bancroft**—Bids received until 7 p. m., Feb. 23, for a solid brick and stone church; plans by Parkinson & Dockendorff, architects, La Crosse, Wis.; check 2 per cent; Rev. E. J. Jungblut, pastor, Bancroft; official advertisement in the Improvement Bulletin this week.

**Minn., Easton**—Bids received until 2 p. m., Feb. 21, for church, except heating, plumbing and gas fitting; Architect W. F. Keefe, 304-305 American National Bank building, St. Paul, Minn., on file with architect; Rev. A. Hennekes, pastor; check 2 per cent; official advertisement in the Improvement Bulletin this week.

**S. D., Woonsocket**—Bids wanted by L. G. Turgeon, contractor, on 110,000 to 115,000 best 5 red cedar shingles; also on plastering and metal lath for church; write at once.

**\*Wis., Green Bay**—Sealed proposals will be received by Foeller & Schober, architects, Green Bay, Wis., on or before noon of Feb. 27, 1915, for the construction of a church building for St. John the Baptist congregation, Duck Creek, Wis.

## ELECTRICAL

**Iowa, Brighton**—Reported preliminary arrangements are underway for electric light system; electricity probably to be obtained from Washington.

**Iowa, Collins**—The Maxwell Electric Light & Power Co. has applied for a franchise to city council for supplying electricity for lamps and motors of town.

**Iowa, Des Moines**—Reported that Des Moines Electric Co. plans to spend over \$500,000 in improvements this year; new turbine generators with boilers and auxiliary apparatus will be installed.

**Iowa, Ft. Dodge**—Ft. Dodge, Des Moines and Southern R. R. will erect addition to power plant at Fraser; cost about \$100,000.

**Iowa, Imogene**—Plans are being considered for installation of a municipal electric lighting system.

**Iowa, Kalona**—A company is being organized to establish an electric light system, capital \$10,000; address S. G. Bell.

**Iowa, Kalona**—Steps are being taken for installation of electric lighting system capital \$10,000; will ask for a franchise.

**Iowa, Lake City**—Preliminary plans are being prepared for a municipal electric light system.

**Kans., Great Bend**—Plans are being considered for installation of an ornamental lighting system in business district, by the merchants.

**Minn., Clarissa**—Town is agitating question of electric lights.

**Minn., Hibbing**—Chairman John Curran of water and light board is negotiating with the General Electric Co., to furnish transformers for village.

**Minn., Hibbing**—Extension of power transmission lines of the G. N. Power Co., have been authorized from here to Nashwauk; electricity will be installed in mines.

**Minn., Mapleton**—Municipal electric plant rejected; private company will erect a plant.

**Minn., New Ulm**—The New Ulm Gas Co. is planning to extend its mains to supply Sleepy Eye with gas during coming year.

**Minn., Rochester**—Steps have been taken for erection of a modern up-to-date electric light plant in city; cost about \$150,000.

**Minn., Slayton**—Bids were rejected on white way system; plans and specifications will be altered and new bids called for.

**Minn., St. Paul**—County auditor was authorized by county commissioner to advertise for bids for lamps to be installed on the Kellar Parkway about Spoon Lake.

**Minn., Windom**—Earl Jackson, consulting engineer, St. Paul, drawing plans for electric light plant; bids will be called for about March 1.

**Minn., Windom**—Bonds of \$25,000 were voted for a municipal electric light plant.

**Mont., Great Falls**—The Mountain States Telephone & Telegraph Co. will remodel their building, cost \$1,000; permit issued; work to begin at once.

**Mont., Red Lodge**—Contract awarded to Northwestern Improvement Co. for installing of gooseneck lights in residence district.

**Neb., Blair**—Plans are being prepared by Martz Engineering Co. of First National Bank, for a municipal electric lighting system, cost about \$35,000; bids asked for soon.

**Neb., Edgar**—Plans are being prepared for a municipal electric plant here.

**Neb., Kearney**—The Kearney Independent Telephone Co. will make extensive improvements to its plant; 20,000 feet of new cable will be used.

**N. D., Bowman**—The electric lighting plant of Deadwood, owned by C. E. McHugh, has been purchased by E. P. Whitcomb, capacity of 200 lights, will be installed at Camp Cook.

**N. D., Charbonneau**—Bids received until Feb. 5, by the Elk Charbon Telephone Co. for one wire grounded telephone line 25 miles or more in length, bond of \$200; address C. W. Anderson, secretary, or phone J. M. Burns, Charbonneau.

**N. D., Grano**—Steps have been taken to install an electric light plant here, by business men.

**N. D., Wyndmere**—City has offered bonus for anyone that will install a private electric light plant here.

**Okla., Nowata**—Plans are being considered by the Farmers' Street Car Association, Lincoln, Neb., for construction of an electric interurban railway from here to Vinita.

**Ore., Monmouth**—Council is considering proposal for improving the street lighting system submitted by A. L. Martin, local manager, of Oregon Power Co.

**Ore., Oswego**—The Oswego Lake Water, Light & Power Co., incorporated, capital \$5,000, proposed to install a power plant and furnish water to the city of Oswego; A. S. Pattullo, Frederick H. Strong and Isaac D. Hunt, all of Portland, incorporators.

**Ore., Salem**—Installation of a municipal electric light plant is under consideration, estimated cost from \$200,000 to \$250,000.

**Sask., Regina**—The Regina Municipal Railway Co., plans to construct 1½-mile of extension to its line in the spring; D. W. Houston, superintendent.

**S. D., Bruce**—Proposition is being discussed for installation of an electric light system.

**S. D., Flandreau**—A franchise was granted to the Light & Power Co. to install lighting system.

**S. D., Fulton**—Bids received until 2 p. m., Feb. 9, for wiring court house for electric lights, plans at office of county auditor, W. A. Caldwell, Hanson county.

**Tex., Temple**—City officials have under consideration purchase of an electric fire alarm system.

**Tex., Wolfe City**—The Wolfe City Electric Light Co. organized with capital of \$6,000, will erect an electric light and power plant; M. Tasker, interested.

**Wis., Cooperstown**—The High Falls Co. may extend its line to Cooperstown and Denmark.

**Wis., Fox Lake**—Citizens of town are considering formation of a stock company for purpose of installing an electric light plant.

**Wis., Janesville**—An ornamental street lighting system will be installed in business district, through the efforts of the Janesville Commercial club.

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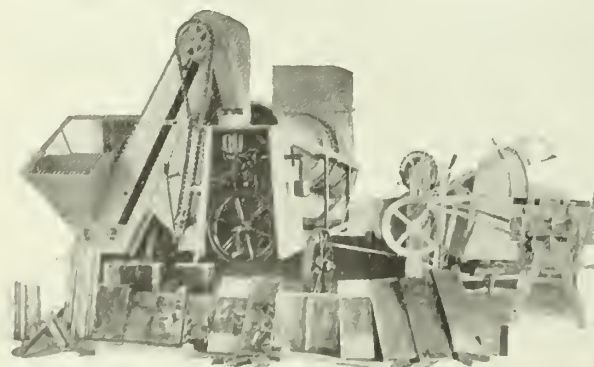
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**Wis., Manitowoc**—Plans have been completed and contracts will be called for soon on a modern electric light plant at up-river docks.

**Wis., Marengo**—The Marengo Co-operative Telephone Co. has organized for a farmers' telephone line.

**Wis., Marinette**—Following officers were elected at annual meeting of the Marinette Telephone Co.; J. A. Tiedjens, president; Jos. Cooper, vice president.

**Wis., Oconomowoc**—Reported that work will begin on electric line by Western Electric Railway Co., within a few months; T. W. Miller, Markesan; A. V. Englehart and H. J. Janzer of Milwaukee and others, members of board.

## SCHOOLS

**Alta., Medicine Hat**—General contracts awarded to Morton & Willits, Medicine Hat, for primary building, cost about \$50,000, contract price \$32,597; steel, Vulcan Iron Works; painting, Robt. Kennedy; heating and plumbing, J. H. Reive, Medicine Hat, at \$10,487; electric lighting, Hudson Electric Co., work in abeyance until spring; general contractors will receive bids on asbestos shingles, when work opens in spring; 1-story, 5-rooms, steel, stone and pressed brick, asbestos shingle roofing, steam heat, maple floors, wall plastering, metal lath; McCoy & Levine Engineering Co., Huckvale block, architects, will supervise work; W. Huckvale, president.

**B. C., Burnaby Lake**—Bids will be called for soon on an 8-room school building to be erected by the municipality of Burnaby, J. H. Bowman, Vancouver, architect, cost about \$50,000; classic design, faced with pressed brick and stone.

**B. C., Point Grey**—General contract awarded to Granitoid & Contracting Co., 80 Exchange building, 142 Hastings, W. Vancouver, for school, 8-rooms, 100x92, reinforced concrete, cost \$50,000, contract price \$40,441; heating, plumbing and veneering let; Twizell & Twizell, architects, 1019 Metropolitan building, Vancouver; general contractors will take bids on material.

**B. C., Vancouver**—Vancouver school board may build an 8-room school in Grandview district, \$60,000 appropriated for purpose; board is also considering erection of an 8-room addition to the Vancouver model school; plans and estimates are in course of preparation.

**Iowa, Belmont**—School building may be built.

**Iowa, Bonaparte**—Fire destroyed the school building here valued at \$15,000.

**Iowa, Fontanelle**—City may build new school building.

**Iowa, Nichols**—Nichols school building burned; loss \$3,500; insured at \$1,500.

**Iowa, Radcliffe**—A new school will be erected here, cost \$33,000; address clerk of school board.

**Iowa, Sioux Rapids**—Contracts awarded as follows on the school in consolidated school district; general, J. P. Riddle, Creighton, Neb., at \$45,270; heating and plumbing, R. E. McCartney, Cedar Rapids, Iowa, at \$10,450; electric fixtures, Herman Andrae Electric Co., Milwaukee, Wis., at \$1,000; 18 general contracts were received and nine heating, plumbing and eight electric; J. O. Osmundson, secretary.

**Iowa, Waterloo**—Plans prepared by Wm. L. Pedicord, architect, Waterloo, Iowa, for 2-story and basement school, for board of education; brick; cost \$12,000; bids taken until April 1, by architect, close April 15, 40x50, steel beams and cast columns, cut stone, brick, steam heat, electric lights, asphalt shingle roof, maple floors, birch finish, rolling partitions.

**Mich., Saginaw**—A Catholic central high school will be erected here; cost about \$40,000; spring work.

**Minn., Alexandria**—Special election will be held Feb. 8, to vote on \$72,000 bonds for new school; W. F. Broomhall, architect, Duluth, engaged to draw plans.

**Minn., Anoka**—Clerk Mrs. G. H. Wytman; bonds for addition to high school and a new grade school building defeated; another election will be called for bonds for a grade building only.

**Minn., Appleton**—Clerk A. D. Countryman, new grade and industrial building; fireproof construction; steam heat and fan ventilation; departments of agriculture, manual training, home economics, gymnasium.

**Minn., Ely**—Contracts were awarded as follows for furnishing for new school; school seats, to American Seating Co.; auditorium seats to D. M. Witem, Chicago; scenic curtain to Twin City Scenic Co., of Minneapolis.

**Minn., Hutchinson**—The German Lutherans are planning to erect a modern school; Rev. G. E. Fritzke, pastor, C. A. Birkenhagen, H. C. Magdanz and others, committee.

**Minn., Kelly Lake**—Architects Bray & Nystrom of Duluth, Minn., have been asked to submit sketches for a one room steam heat, gas; spring work.

addition to Kelly Lake school, by Superintendent Balin.

**Minn., Kenyon**—Clerk C. J. Holmen; bonds for \$50,000 voted for a new building for high school and grades; capacity 450 pupils, fireproof construction, steam heat and fan ventilation; departments of agriculture, manual training, home economics.

**Minn., Melvin**—Bids received until Feb. 5, 2 p. m., for a school in district No. 10, township of Onstad, Polk county; plans at Farmers' State Bank, Fertile, Minn.; Albert Berg, clerk, Fertile, R. 4.

**Mont., Billings**—Trustees of the Lockwood school district, are considering plans of erecting a school.

**N. D., Fargo**—Site purchased and foundation laid for new 6th ward school building to be completed by fall.

**N. D., Lehr**—Question agitated for new school building.

**N. D., Ruthland**—School will be erected here, in Sargent county.

**S. D., Yankton**—\$100,000 school bonds were voted for new building.

**Wis., Milwaukee**—School board awarded following contracts Jan. 28: completing Washington high school, cost \$365,000; mason, Riesen & Riesen, University building, Milwaukee, \$74,370; cut stone, Consolidated Stone Co., Milwaukee, \$31,886; plastering and stucco work, A. H. Bleuel Co., \$20,000; sheet metal, Anton J. Rechlicz, \$5,763; carpenter, August Holstein, Milwaukee, \$45,290; hardware, P. H. Gross Hardware Co., \$2,917; painting and glazing, Jos. Galst, \$6,789; tile and marble, Wisconsin Mantle & Tile Co., \$36,900; slate blackboards, S. A. Berkmeier, 27c per square foot; total, \$223,925; addition to Detroit st. school, cost \$75,000; excavating, concrete, etc., Edward R. Kiesslich, \$11,450; piling, E. E. Gillen, \$1,264 each; mason, Richard Hoepfner, \$15,166; cut stone, C. W. Tingley, \$2,180; steel and iron, A. F. Wagner, \$2,280; lath and plaster, F. W. Baumann, \$2,780; tile, Wisconsin Mantle & Tile Co., \$690; marble, Breidster Marble Co., \$2,244; slate blackboards, Breidster Marble Co., \$730; hardware, Ph. Gross Hardware Co., \$695; sheet metal, A. J. Rechlicz, \$642; painting and glazing, Heun Bros., \$1,050; plumbing, Wenzel & Henoch, \$4,147; heating and ventilating, Wenzel & Henoch, \$9,197; heat regulation, Johnson Service Co., \$949; electrical, A. M. Kailing, \$1,253; total, \$69,353.

**Wis., Stanley**—St. Ann's congregation will erect a parochial school, cost between \$8,000 and \$10,000, basement to be laid next fall and superstructure to be completed for school opening in fall of 1916.

### BIDS WANTED.

**Minn., Wanda**—Bids received until 2 p. m., Feb. 26, for school in Redwood county, district 94; specification at State Bank of Wanda; check for \$200; Wm. Kuehl, clerk.

**Minn., Williams**—Bids received until Feb. 20, 4 p. m., for sale of \$10,000 school bonds for new school in district No. 91, Williams, Minn.; check 2 per cent; bids to be opened Feb. 27, 4 p. m., A. W. Atwater, clerk.

**N. D., Jamestown**—Bids received until 2 p. m., March 8, for a 2-story and basement addition and remodeling of present school; plans by Architect Gilbert R. Norton, on file at Builders' Exchange, Minneapolis, office of architect, Citizens' Nat. Bank, Jamestown; check 4 per cent; Alfred Steel, president, school board; official advertisement in the Improvement Bulletin this week.

**\*N. D., Maxbass**—Bids taken till 2 p. m., March 19, for school; particulars in official advertisement in the Improvement Bulletin this week.

**Wis., Madison**—F. L. Kronenberg, architect, is taking sealed bids for the erection of a \$75,000 public school in Elmside addition, city of Madison; check for 5 per cent.

### CONTRACTS AWARDED.

**Wis., Whitewater**—Contract awarded to J. P. Cullen Construction Co., of Janesville for new gymnasium at Whitewater normal.

## BUSINESS BUILDINGS

**B. C., New Westminster**—Contract awarded to Robinson Bros., of New Westminster for erection of a grain warehouse costing \$5,000, for the B. C. Grain Growers' Association.

**Iowa, Elkader**—The Elkader State Bank will remodel and build addition to present building; 2-story and basement, 42x55; E. Hill Turnock, architect, Bucklin building, Elkhardt, Ind.; J. F. Becker, cashier; plans in progress; stone, press brick, composition roof, stone cornice, structural iron, marble, mosaic cut stone.

**Iowa, Marshalltown**—Fire destroyed J. W. Arkin clothing and dry goods store; loss, \$35,000, insured at \$26,000.

**Iowa, Turin**—Turin Savings Bank purchased site and will erect modern bank building, brick, stucco, 26x44, basement, steam heat, gas; spring work.



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**Iowa, Waukon**—Plans are under way for a 2-story, 25x70, brick, steel, stone, cement and wood store building for C. A. Davis; also double brick stores and offices for F. H. Molumby, brick and stone, adjoining above building.

**Minn., Albert Lea**—The Albert Lea Fur & Hide Co., will rebuild a fireproof concrete building.

**Minn., Bemidji**—The Segal Emporium burned, loss \$20,000; also two adjoining establishments, Gill Bros.' clothing store and Palace meat market; Calvin & Tanner, owners of building.

**Minn., Fairmont**—Fire destroyed the implement building of Christian Scott; partly insured.

**Minn., Faribault**—Fire damaged the office of the Faribault Republican, loss about \$2,000.

**Minn., Iron Mountain**—The Mountain Iron Bank will build new building, cost about \$6,000 for site and building; \$10,000 capital stock.

**Minn., Madelia**—The Home Mutual Tornado & Cyclone Insurance Co. will erect office building, Secretary Reynolds to have plans drawn at once and bids called for.

**Minn., Minneapolis**—Grocery store of W. R. Potter burned; loss \$3,000.

**Minn., Nassau**—Fire destroyed five business buildings, including postoffice; loss, \$25,000, partly insured.

**Minn., Pipestone**—Work will begin on First National Bank building in the spring; cost from \$25,000 to \$30,000; modern.

**Minn., Spooner**—State bank is planning to erect a modern bank building next summer. Cost \$5,000.

**Mont., Laurel**—Edward Hanner will erect a business building; cost \$10,000; plans to be drawn by new architectural firm of Dedrick & Piper, city.

**Neb., Anselmo**—People's State Bank will erect new fireproof building.

**Neb., Gordon**—Dr. Dwyer may build a 2-story building.

**Neb., Fremont**—Architect A. H. Dyer, received contract to prepare plans for Keene-Sampter block; plans being drafted; 53x115, 2-story, modern, brick.

**Neb., Staplehurst**—New bank building will be erected here by the leading residents of city; Geo. Helmsdorfer, bidding on contract.

**Nevada, Crawford**—John N. Bruer & Son will erect a new warehouse in the spring, 50x100.

**N. D., Gackle**—Ruff Brothers' hardware store burned.

**N. D., Knox**—Fire destroyed general store of Garson & Steen; loss, \$15,000, insured at \$5,000.

**S. D., Belle Fourche**—E. M. Arnold's grocery store burned.

**S. D., Rapid City**—Fire destroyed the J. C. James' clothing and dry goods store, loss about \$100,000; the Pennington County bank building, loss \$25,000, the Farlow building, \$15,000; total loss, \$225,000; will rebuild soon.

**Wis., Appleton**—Preliminary plans by Architect W. W. DeLong, 772 College av., for warehouse, 2-story and basement, 60x70; owner's name withheld; fireproof.

**Wis., Brandon**—The Farmers' State Bank of Brandon, incorporated, capital, \$20,000; Perry W. Atwood, J. E. Johnson, E. F. Young and Matt Rens, F. E. Shaykett, incorporators.

**Wis., Green Bay**—Fresley, Sorenson & Jones Co. will erect a new business building; William Sorenson & Co.

**Wis., Green Bay**—A 2-story and basement store building will be erected by Emile Rothe; preliminary plans in progress by Architect L. M. Hanson, 113 W. Walnut st.

**Wis., Hortonville**—Postoffice building will be erected; Edward Jacquot, postmaster; 2-story, stucco and cement, modern.

**Wis., Marion**—Fuchs & Pflanz will build a business building; cost \$5,000.

**Wis., Milwaukee**—General contract awarded to Kroening & Co. for 1-story and basement store building for J. Bruemmer estate, 411 11th av.; up to roof; plumbing let to H. Luedcke, 409 11th av.

**Wis., New London**—Wisconsin Seating Co. will erect two wing addition, 48x80 and 40x40.

**Wis., Oshkosh**—Plans in progress for a 3-story, 40x100 store building; press brick, stone and terra cotta, structural iron; cost, \$20,000; Jos. Dreger, architect, City National Bank building; Wm. J. Glatz, owner, 2504 Doty building.

**Minn., Zumbro Falls**—Contract awarded to Wm. Barghausen for erection of large barn, 42x100, for C. C. Miller.

**N. D., Cleveland**—A. L. Hilleman, of Minneapolis, will erect set of modern farm buildings here soon.

**N. D., Sheidon**—Fire destroyed large barn of Benn Tripp, insured partly.

**Wis., Baldwin**—Christ Blegan will erect modern barn in spring.

**Wis., Marshfield**—Contract let for two or more stories to Marshfield Hardware & Automobile Co. garage. Cost \$3,500.

**Wis., Prairie du Chien**—Contract awarded to Geo. Abrams for erection of large barn for Mr. Miller, of Bell Center; spring work.

**Wis., Sheboygan Falls**—Tom Nolan will erect a barn in spring at Hulls Crossing.

## ELEVATORS

**Minn., Moorhead**—Members of Farmers Potato Warehouse Co., of Lambs Siding, plan to erect a potato warehouse; cost about \$6,000.

**Neb., Hastings**—The storage elevator annex to the Hastings Milling Co., burned.

**N. D., Coulee**—Elevator of Cullen Elevator Co. burned; loss about \$15,000.

**N. D., Jamestown**—General Manager Maxwell has leased sites for line elevators at Millerton, Nortonville and Sidney; to be built this year.

**Ore., Portland**—If plans carry, a large grain elevator will be erected here by the Port commission; cost \$900,000.

## RESIDENCES

**Iowa, Brighton**—T. L. Lamansky will build modern residence next season.

**Iowa, Green Mountain**—The Congregational church will erect a new parsonage this year, cost \$4,000; funds being raised.

**Iowa, Sibley**—L. A. Wilson will erect a modern 2-story bungalow, outside stucco plaster, cobblestone foundation and fireplace, chimney, oak finish throughout; hot water heat and plumbing; cost about \$6,000; Unger & Parks, architects, Storm Lake, Iowa.

**Iowa, Sioux City**—Architect G. W. Burkhead, Sioux City, will draw plans for modern residence for Judge Douglas Cones. Cost \$3,500.

**Iowa, Storm Lake**—Unger & Parks, architects, city, are preparing plans for a modern 1-story bungalow for F. Shannon; cost \$3,500.

**Iowa, Varina**—Ira A. Moore, cashier of the Iowa Trust & Savings Bank, will erect a 1-story bungalow; Unger & Parks, architects, Storm Lake, Iowa.

**Iowa, Waterloo**—Plans prepared by Architect Wm. L. Pedicord, of Waterloo, for a 2-story and basement residence for N. Pruness; 31x38, cost \$4,500, brick. Bids taken about Feb. 15 by architect.

**Minn., Duluth**—Fire damaged the flat building at 13-15 E. 4th st., about \$6,000, fully insured; Frank and Henry Bridgeman, owners.

**Minn., Duluth**—Fire destroyed the home of Fred Wise; loss about \$2,000.

**Minn., Tower**—L. R. Shively will erect a modern bungalow at Vermilion Dam this year.

**Mont., Dillon**—Contract awarded to J. A. McDonald, of Dillon, for modern dwelling on ranch of Beardsley & Williamson, at \$5,000; electrical, steam heat, complete water system; work to begin about Feb. 1.

**Mont., Dillon**—W. H. Smith will erect modern dwelling.

**Mont., Lewistown**—Lou Clark will erect a modern residence this year; plans by Wasmandorff & Eastman, architects of city; spring work.

**Neb., Aurora**—Mrs. Nissen will erect a \$3,000 bungalow, Wm. O'Brien, contractor.

**Neb., Cedar Bluffs**—Peter Murphy is preparing to erect a \$5,000 frame residence; H. O. Lubker, contractor.

**Neb., Pierce**—Plans prepared by Architect Geo. W. Burkhead, of Sioux City, Iowa, for a residence, 28x50, 1½ story, frame, cost \$3,000, for Douglas Cones. Bids taken Feb. 10 by owner, close Feb. 20. Furnace heating, electric light, wood roof, common plaster, corner bead, tile, floor and hearth, oak and maple floors, maple finish.

## GARAGES AND BARNs

**Iowa, Cherokee**—Park Bros., contractors of Storm Lake, are building Swanson garage, 48x101, 2-story.

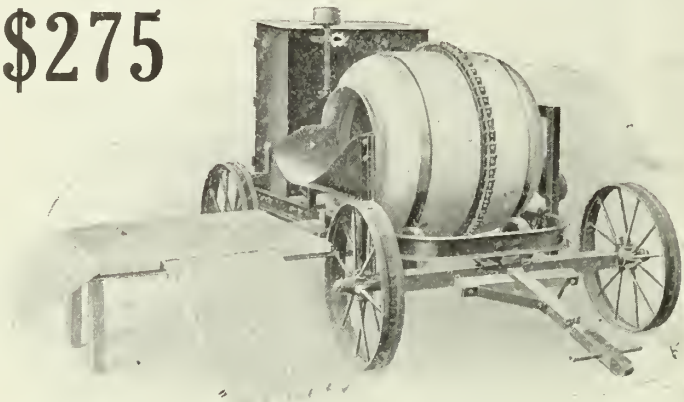
**Iowa, Grinnell**—Work begun on Grinnell Motor Car Co. garage. C. W. Sparks, contractor.

**Minn., Winthrop**—Edwin J. Norman will erect modern garage in spring.



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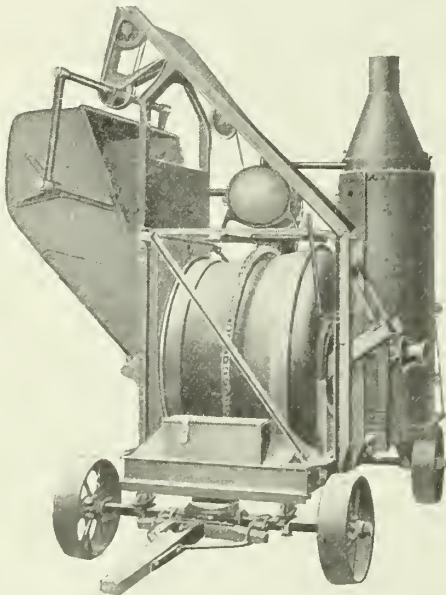


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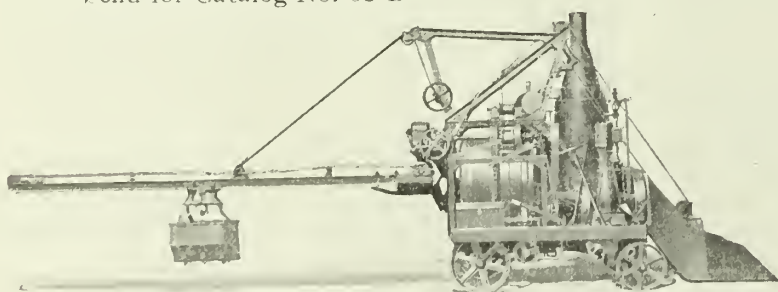


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**Neb., South Sioux City**—The Methodist brotherhood of the M. E. church have begun a campaign for funds to erect a parsonage.

**N. D., Devils Lake**—Fire destroyed the Glerum flat building.

**Wis., Beloit**—Earle Randall reported that he will erect a large 2-family frame house, modern.

**Wis., Chilton**—Modern residence will be erected by Harry Siegrist, of Charlestown; spring work.

**Wis., Frankville**—John Johnson will erect dwelling in spring.

**Wis., Glenwood City**—C. J. Vick will erect a modern cement block dwelling, 2-story, 22x26.

**Wis., Holstein**—Contract let to Julius Schroeder, of Chilton, for erection of bungalow for Mrs. Michael Martin.

**Wis., Neenah**—Dan. L. Kimberly will erect a modern residence soon.

**Wis., Oakfield**—St. Mary's Episcopal church plans erection of a parish house; Rev. Arthur Burton, pastor.

**Wis., Plattsville**—Frank Butler is making plans to build a residence soon.

**Wis., Sherwood**—Members of Sacred Heart congregation plan to build modern parsonage in spring.

**Wis., Wausau**—Modern house will be built by Edward Reinhart.

### PARKS AND CEMETERIES

**Wis., Milwaukee**—The board of park commissioners, Frank P. Schumacher, secretary, has commissioned Alfred C. Clas, architect, Colby-Abbot building, to prepare plans for the following work to be done this year: Unit 2 of the Washington Park concrete grandstand and clubhouse structure, to be 50x200, of concrete and stucco, containing baths, lockers, refectory, open air pavilion, etc. Steel trestle, 2-span, with concrete approaches, over C. & N. W. tracks on lake front, from foot of Mason st. to southern terminus of Lake Shore Drive fill, about 750 feet. It is expected that bids will be asked about Feb. 15.

**Wis., Oshkosh**—All bids rejected by the park board, for material relative to park improvements.

### MISCELLANEOUS

**Mich., Calumet**—Contract expected to be let soon for government work on Portage entry Refuge harbor; may use hydraulic or dipper dredge; sand sucker, etc.; plans at U. S. engineer's office, Duluth.

**Wis., Two Rivers**—City will engage hydraulic engineer to assist City Engineer De Bruin on plans for increase in water supply.

### FIRE APPARATUS

**Minn., Akely**—1,000 feet hose, two hose carts, three ladders and two shut-off nozzles, to be ordered at once. Messrs. H. H. Johnson, Luff and E. R. Bell appointed committee.

**Minn., Keewatin**—Bids received until 8 p. m., Feb. 9, for 700 feet fire hose and two shut-off nozzles; check for 10 per cent. C. W. Extrum, village clerk.

**Minn., Two Harbors**—Following bids were received on 500 feet of water hose for the city department; contract to be divided between three firms as follows: United Globe & Rubber Co.; Cincinnati Rubber Co., and W. S. Knott Co., Minneapolis.

**Minn., Willmar**—Fire department elected C. C. Selvig, chief, and Sivert Benson, assistant. May purchase fire alarm and fire truck.

**Mont., Big Timber**—Fire department proposes to buy a new fire truck, one with capacity of a ton; address Chas. Morris, of fire department.

**Mont., Denton**—Proposition is being discussed for incorporation of the town of Denton.

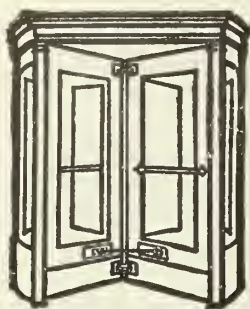
**Mont., Rygate**—Petition being circulated for incorporation.

**Wis., Ellsworth**—Ellsworth Hose Co. elected J. C. Haberman captain.

**Wis., Madison**—Eight bids in for furnishing tractor for fire department, action deferred.



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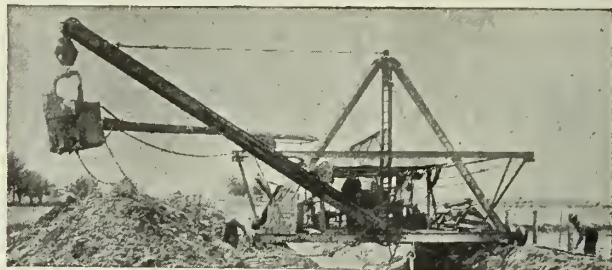
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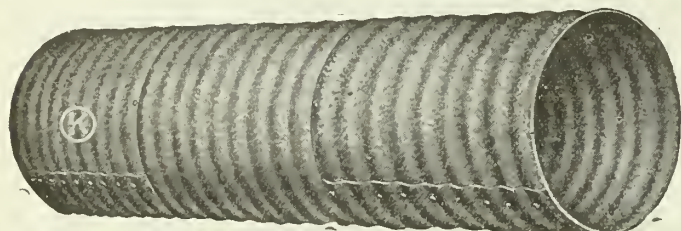
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**Wis., Oconto**—Village of Suring incorporated; Allan V. Classen, attorney; election of officers Feb. 16.

**Wis., Poynette**—Fire company elected: Robt. Pribbenow, chief; W. Bell, assistant.

**Wis., Sullivan**—Steps were taken at annual meeting of the volunteer fire department to incorporate village; E. T. Shermith, elected chief.

## RAILROADS

**Minn., Cromwell**—N. P. station burned.

**Minn., Little Falls**—A line from here to Pierz may be built this year by Minneapolis and Central, Minn.; E. G. Potter, Andrus building, Minneapolis.

**Mont., Eureka**—Great Northern will spend \$15,000 here for improvements, including log rip-rap; contract for logs to Eureka Lumber Co.

**Wis., Crandon**—Peter Nelson & Co., 315 Temple Court, Minneapolis, who have contract to grade 27 miles for Wisconsin and Northern, from 5 miles north of Van Ostrand, north to Crandon, will begin making culvert timber and clearing right-of-way at once.

**Wis., Madison**—Soo road will build an "adequate" station at Lehigh by June 1.

**Wis., Milwaukee**—Project for a union station for all roads has been revised; Wm. J. Bruce, secretary, Merchants' and Manufacturers' Association.

**Wis., New Richmond**—New station ordered by the state for the Soo Line must be ready for use by Feb. 1, 1916.

**Wis., Portage**—The Milwaukee road will rebuild part of bridge at Spring Green now on piling.

**Wis., Stoddard**—Railroad station of the Burlington was destroyed by fire.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**Iowa, Boone**—Hearing March 8, on curb and gutter on various streets; K. C. Kastberg, city engineer, instructed to prepare plans and specifications for paving and curbing on certain other streets; Otto Hile, city clerk.

**Iowa, Marshalltown**—Resolution of necessity being prepared for almost five miles of paving, including two miles on Lincoln highway in city; also, bids may soon be asked for on raising the pavement at intersections; address city clerk.

**Iowa, Muscatine**—City Engineer Young is preparing plans for paving 12 or more streets and alleys and contracts will probably be awarded in March; address city clerk.

**Iowa, Muscatine**—Council has created paving district containing 22 blocks paving, and city engineer instructed to pre-pave and file preliminary plat and schedule; details to be completed by spring; address city clerk.

**Iowa, Red Oak**—Definite action expected March 8, on grading, paving, curbing, gutter, etc., on portions of 24 streets; Richard Roberts, city clerk.

**Iowa, Sioux City**—Morningside residents favor paving 4th, 5th and 6th avs. and also S. Paxton st., in all probably about a mile of paving; Riverside av. may also be repaved where the old brick paving has been worn out; address city clerk.

**Iowa, Traer**—Definite action probably taken at once for paving portions of 2d and Walnut sts.; address city clerk.

**Iowa, Vinton**—Definite action in early spring on paving West Whipple and Concord sts., address city clerk.

**Iowa, Waterloo**—Program of city improvements to be outlined at next regular meeting of council, Feb. 8, and citizens notified to present their petitions not later than Feb. 6, for sidewalks, paving and sewers; address city clerk.

**Mich., Eagle River**—John G. Bennetts, chairman, road commission, authorized to advertise at once for bids for a macadam road from Cliff mine to Eagle River, 3.3 miles; road from Phoenix to Delaware mine later; total appropriation of \$25,000.

**Minn., Bemidji**—County board petitioned by board of trade of Baudette and Farmers' club, and others, that a demonstration of road machinery be arranged for at Baudette in the spring; J. L. George, county auditor, Beltrami county.

**Minn., Duluth**—City commissioners have ordered the paving of Commonwealth av., in Gary, with brick to a width of 56 feet, the improvement to be made next summer, and the cost to be \$57,308. Roderick Murchison, commissioner.

**Minn., Duluth**—City council to order paving on Minnesota av., Park Point, Woodland av. and E. 9th st. Roderick Murchison, commissioner in charge.

**Minn., Minneapolis**—Paving committee has recommended paving of Minnehaha av., from 20th st. to 49th st., with creosoted blocks. E. R. Dutton, city engineer.

**Minn., St. James**—If plans made are carried out there will be 48 miles of permanent roads built in Watonwan county this year, 27 miles on the state road and 21 miles on county roads; John C. Jensen, county auditor.

**Minn., St. Paul**—Hearing Feb. 23 on paving of Laurel av. from Dale st. to Lexington av., costing \$50,168 for wood blocks; hearing on the same day for paving Holly av., from Dale to Victoria st., at cost of \$25,568; hearing on the 24th for paving of Grotto st., from Selby to Summit av. at cost of \$19,692; August Hohenstein, city purchasing agent.

**Mont., Butte**—Preliminary steps taken for paving of Arizona st. with vitrified brick, cost about \$20,000. Address city clerk.

**Wash., Seattle**—City Engineer Dimock has submitted an estimate to the board of public works for paving, concrete walks, sewer, water mains and cluster lights, 19,000 cubic yards grading, 2,230 square yards asphalt paving, 55,960 square yards brick paving, 18,560 square yards concrete sidewalks and 222 cluster lights; cost \$235,600.

**Wis., Beloit**—City council decided people may vote on concrete, brick, asphalt and creosoted block paving for material for extensive paving proposition. Address city clerk.

**Wis., Green Bay**—City engineer authorized to prepare plans for culvert across Broadway. W. L. Kerr, city clerk.

**Wis., Hudson**—City is considering purchase of an oiler; address city clerk.

**Wis., Kenosha**—Purchasing committee authorized to buy stone crusher by Feb. 16; John T. Yule, chairman.

**Wis., Kaukauna**—Committee instructed to prepare plans and specifications for three kinds of paving, including foundation and curbing; L. C. Wolf, city clerk.

**Wis., Madison**—Mayor informed council that street improvements to cost more than \$400,000 have been ordered for this year; Geo. Nelson, city auditor.

**Wis., Oshkosh**—Reported bids will be called for about Feb. 15, on paving 45,000 square yards and 24,000 lineal feet curb and gutter; Geo. Randall, city engineer.

**Wis., Plover**—Will macadamize road through village, part 18 feet wide and part 9 feet wide; M. C. Skinner, village clerk.

**Wis., Racine**—An oil distributor will be bought for the county in the spring; Hy. Caley, chairman, committee, Watertown, Wis.

**Wis., Stevens Point**—Council is considering paving Normal av. with concrete; W. L. Bronson, city clerk.

### BIDS WANTED.

**Iowa, Cedar Falls**—Bids received by city clerk until 7:30 p. m., Feb. 16, for 75,680 square yards paving, on either brick block, asphaltic concrete or sheet asphalt, and 1,110 lineal feet reset curb, 48,050 combined curb and gutter, and 6,540 feet gutter; check for \$2,000. W. H. Merner, mayor.

**Iowa, Emmetsburg**—Bids received by city clerk until 2 p. m., Feb. 15, for approximately 40,000 square yards of bitulithic, sarcolithic mineral rubber, asphaltic concrete, vitrified brick, creosoted wood blocks, or Portland cement concrete paving; check for \$7,500; Aetna Engineering Bureau, engineers, 17 N. La Salle st., Chicago.

**Iowa, Iowa Falls**—Reported bids will be received by city clerk until Feb. 16 for 51,500 square yards paving, to be of asphalt, asphaltic concrete and brick block.

**Iowa, West Liberty**—Bids soon to be called for on paving 3d, 4th, Calhoun and Spencer sts., on cement foundation, about 40,000 square yards; concrete curb and gutter, 20,000 lineal feet; material not yet selected for paving; Benton R. Anderson, engineer, West Liberty.

**Minn., Duluth**—Bids received by Robert Murchison, commissioner, until 10 a. m., Feb. 10, for furnishing f. o. b., Duluth, one motor combination flusher and sprinkler, capacity 1,000 to 1,400 gallons; consideration given to any other kind of motor street cleaning machine; check for 10 per cent.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, purchasing agent, until 3 p. m., Feb. 12, for approximately 175,000 square yards creosoted wood paving blocks for street paving; check for \$6,000.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., Feb. 15, for grading and improving of Lewis & Mabon's addition, alley in block 10, from Westminster to Arkwright st.; check for 10 per cent; also, at same time, for grading and improvement of Capital av. from Avon st. to a point east of Victoria st.; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., Feb. 15, for three street washing machines with rubber squeegee brooms, tank capacity of 300





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gallons; also, at same time, for one automobile runabout, equipped with electric lights and electric starter; check for 10 per cent in each case.

**Minn., Winona**—Bids will be received by Ross Bragg, city clerk, until March 1, for the new approach to the high wagon bridge, estimated to cost \$100,000; plans approved by U. S. war department, N. W. Ry. Co., and Winona council; approach to be of concrete; L. P. Wolff, consulting engineer, St. Paul.

**Mont., Great Falls**—Bids received by W. H. Harrison, city clerk, until 8 p. m., Feb. 9, for such concrete sidewalks and curbing as the city may direct during the calendar year 1915; check for 10 per cent.

**Wis., Appleton**—Bids received by E. L. Williams, city clerk, until 9 a. m., Feb. 11, for paving on various streets; also, for 10,000 barrels Portland cement at same time, f. o. b. Appleton.

**Wis., Appleton**—Bids received by E. L. Williams, city clerk, until 9 a. m., Feb. 11, for 38,482 yards paving and 10,000 or 12,000 feet concrete curb and gutter or straight curb.

**Wis., Fond du Lac**—Bids advertised for after Feb. 2, for 19,672 yards, concrete, 5,253 yards brick and 19,165 feet curb-gutter on Western av.; John McCullough, city engineer.

**Wis., La Crosse**—Bids will be asked for about May 1, on city paving estimated to amount to about \$60,000; Geo. Bradish, city engineer; about 21 blocks asphalt macadam on various streets, and a quantity of brick with asphalt filler; all to be on concrete base, concrete curb and gutters.

**Wis., Marshfield**—Bids received probably in February or March for about 25,000 square yards paving on Central av., brick, asphalt or reinforced concrete on concrete foundation and approximately 7,000 feet concrete curb and gutter; W. F. Reichardt, engineer, city.

**Wis., Sheboygan**—Bids will soon be out for 10 blocks of paving on S. 14th st., brick and concrete; C. U. Boley, city engineer.

#### CONTRACTS AWARDED.

**Iowa, Boone**—Contracts to E. S. Thorngren, the Farmers Co-operative Co., Fehleisen-Rosacker Lumber Co., P. T. Nelson & Sons, the Farmers Elevator Co. at Luther, and the Farmers Elevator Co. at Pilot Mound for cement for the county at \$1.30 per barrel of four sacks.

**Iowa, Ottumwa**—Contract to Kansas Paving & Construction Co., Kansas City, Mo., for paving 27,142 square yards at \$42,309.

**Wis., Antigo**—Contract with the Studebaker Co., South Bend, Ind., for a street oiling machine to cost \$554.

**Wis., Augusta**—Contract to Andrew Larson, Eau Claire, for proposed concrete road, 16 feet wide, to run 2,200 feet east from the western boundary of the city; cost, about \$3,000.

## BRIDGES

**Colo., Fort Collins**—Plans will be prepared at once for two bridges over North Poudre ditch. Address county clerk.

**Colo., Pueblo**—Contract awarded to the Pueblo Bridge Co., on plan No. 2, on first bridge and viaduct, plan one \$2,976, plan No. 2, \$2,537. Other bids received were: Missouri Valley Bridge & Iron Co., plan No. 1, \$4,000, No. 2, \$3,257; Stearns-Rodgers Manufacturing Co., plan No. 1, \$4,095, No. 2, \$3,825; Pueblo F. & M. Co., plan No. 1, \$3,202, No. 2, \$3,068; Milwaukee Bridge Co., plan No. 1, \$3,494; No. 2, \$3,198; Levy Construction Co., \$3,950, No. 2, \$3,500; Bartels & Co., plan No. 1, \$3,111, No. 2, \$2,967, No. 3, \$3,451, No. 4, \$3,900; Midland Bridge Co., plan No. 1, \$4,375, No. 2, \$3,375; Lambie & Co., plan No. 1, \$4,587, No. 2, \$3,930; total bids on low truss type, \$3,295; plan No. 1, plate girder type, plan No. 2, low truss type; D. P. Gaymon, city engineer.

**Iowa, Des Moines**—Bids were received until 10 a. m., Feb. 3, for lumber and piling for all bridge work during 1915, Polk county, by board of supervisors; check for 10 per cent. H. L. Barquest, chairman.

**Iowa, Nevada**—Following bids were received for 192 concrete bridges with concrete floors; Paul N. Kingsley of Strawberry Point lowest at \$34,827; Cole Bros., of Ames, Iowa, next lowest at \$36,300; bids under consideration; C. A. Batman, county auditor, Story county; Sam Steigerwalt, engineer.

**Iowa, Waterloo**—Contract awarded to Waterloo Construction Co., for furnishing reinforcing bars for Blackhawk county for 1915.

**Kans., Anthony**—Contract awarded as follows for bridges: 4 concrete bridges Wm. McElroy & Co., Fort Scott, Kans., at \$12,611; 7 low water bridges to Staney-Mackey Construction Co., Hutchinson, Kans., at \$4,119.

**Kans., Concordia**—County commissioners have appropriated \$12,000 for county bridges in each of following townships: Aurora, Shirley, Solomon, Lincoln and Buffalo.

**Minn., Big Falls**—Bids rejected on wooden extension of bridge over Sturgeon river; Wm. Everts, engineer.

**Minn., St. James**—About 12 or 20 new bridges and culverts will be built this year on new state road; John C. Jensen, county auditor.

**Minn., St. Paul**—Contract awarded for 511 tons of steel bars for reinforced concrete work on the 3d av. bridge, Minneapolis, to Corrugated Bar Co., Buffalo, N. Y. T. F. McCormack, Pioneer building, representative.

**Mont., Great Falls**—Following are the bids received on highway and pipe bridge at St. Mary river crossing, St. Mary canal, St. Mary storage unit, Milk river project: Minneapolis Bridge Co., \$2,475; Minneapolis Steel & Machinery Co., \$3,625; Security Bridge Co., \$3,150; Central State Street Co., 601 Beecher st., Indianapolis; East St. Louis Bridge Co., \$2,484; Vincennes Bridge Co., \$2,666; Chicago B. & I. Co., \$2,600; Des Moines B. & I. Co., \$2,648; Milwaukee Bridge Co., \$2,585; Midland Bridge Co., Kansas City, \$2,990; U. S. Bridge Co., Great Falls, \$3,750; Penn Bridge Co., Beaver Falls, Pa., \$2,490. Chas. P. Williams, acting supervising engineer.

**N. D., Grand Forks**—Three plans received for DeMers av. bridge; bids to be called for on each plan; drawn by M. B. Stone, Minneapolis, Minn.; address city council.

**S. D., Mitchell**—Commissioners will construct bridge across the Jim river, 90 feet long, concrete and steel.

**Wis., Campbell**—Surveys being made for 400-foot steel highway bridge to span Black river; plans will probably be prepared by M. W. Torkelson, state bridge engineer, Madison.

**Wis., Green Bay**—Common council has accepted plans by Strauss Bascule Bridge Co., Chicago, Ill., for proposed Main st. bridge over East river, and ordered designer to submit estimates of cost at next meeting, following which bids will be asked; cost \$190,000.

**Wis., Green Bay**—State Highway Commissioners propose to build concrete bridge over Duck Creek.

**Wis., Manitowoc**—The Baston Co. will install new bridge.

**Wis., Milwaukee**—Department of Public Works, Fred G. Simmons, commissioner, will call for bids for new State-Martin St. bridge, cost, \$175,000, as soon as war department approves plans prepared by J. C. Pinney, superintendent bridges; bascule type, one or two leaves, concrete substructure.

**Wyo., Lander**—Congressman Mondell states that Indian office will recommend appropriation of \$15,000 for continuation of road and bridge building in Shoshone Indian reservation for year beginning July 1, 1915.

#### BIDS WANTED.

**Iowa, Pocahontas**—Bids in Feb. 2, on lumber, piling, culverts, reinforcing iron to be used in county during 1915, on bridge construction, f. o. b. Pocahontas county; L. O'Connell, county auditor.

**Iowa, Sigourney**—Bids received until 2 p. m., Feb. 12, by board of county supervisors for furnishing county during 1915, with reinforced steel, gravel and cement; certified check 5 per cent; bids to be received separately for counties or altogether, Keokuk county; for further particulars address J. C. Kennell, county auditor; W. H. Gemmel, chairman of B. of S.

**Iowa, Waterloo**—Bids received until Feb. 17, 2 p. m., for bridges and culverts in Blackhawk county; J. J. Rainbow, county auditor.

**Minn., Breckenridge**—Bids received until 10:30 a. m., Feb. 17, for bridges over following ditches; five bridges over county ditch No. 1A, four bridges over county ditch No. 13, Wilkin county; plans at office of County Auditor P. E. Truax; check 10 per cent.

**Minn., Chaska**—Bids received until Feb. 23, 1 p. m., for reinforced culvert, 24 feet long, 8 feet wide, 6 feet high, Carver county state road No. 2; check 5 per cent; J. B. Connolly, county auditor.

**Minn., Fairmont**—Bids received until 2 p. m., Feb. 10, for state bridge No. 1588, Rolling Green township; state bridge No. 1589, Rolling Green township; state bridge No. 1592, Tenhassen; plans at office of County Auditor H. C. Nolte; reinforced concrete, or combination steel and concrete; check for 5 per cent. D. F. Kanning, chairman Rolling Green township; Wm. Barnett, chairman Tenhassen township.

**\*Minn., Winona**—Bids received till 8 p. m., March 1, for bridge approach; particulars in official advertisement in the Improvement Bulletin this week.

**Minn., Mora**—Bids received 2 p. m., Feb. 16, for bridge No. 1607, state road No. 2, town of Peace, Kanabec county, 90-foot span, 18-foot roadway, concrete floors, on reinforced concrete abutments; state bridge No. 1608, state road No. 5, town of Southfork, 40-foot truss span, 18-foot roadway, concrete floor, mass concrete foundation; state bridge No. 1632, state road No. 2, town of Brunswick, 2 75-foot truss spans, 18-foot road way, concrete floor, on reinforced concrete abutments; separate bids on each bridge complete, or for steel alone; plans at office of state highway commissioners, St. Paul, Minn., or



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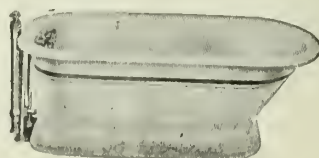


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office of county auditor, Mora; check 5 per cent; A. V. Sander, auditor; officially advertised in the Improvement Bulletin this week.

**Minn., Spooner**—Bids will be received until Feb. 5 for five steel and concrete bridges and 52 metal culverts, on state rural highway No. 32; also bids will be received same time and date for bridges and culverts on judicial ditch Nos. 13 and 22. Address county auditor.

**Minn., Tyler**—Bids received until Feb. 10, 1 p. m., for state bridge No. 1275, state road No. 1, Lincoln county; 30-foot span, 30-foot roadway, concrete floor on reinforced concrete foundation; plans at office of County Auditor Karl A. Hansen. Check for 5 per cent.

**Neb., Kearney**—Bids received until Feb. 23, noon, for furnishing oak, white fir, Douglas fir for twelve months, f. o. b. in car lots, Buffalo county; certified check for \$50. Address J. H. Dean, county clerk.

**Neb., Nebraska City**—Bids received until 12 m., Feb. 16, for wooden and steel bridges in county for 1915; plans on file with clerk; check \$500; Louis Stutt, county clerk, Otoe county.

**N. D., Dickinson**—Bids received until 2 p. m., Feb. 15, for prices on metal culverts, sizes from 12-inch to 42-inch and 20 feet long; check \$500; J. L. Hughes, county auditor, Stark county.

**N. D., Dickinson**—Bids received until 11 a. m., Feb. 15, for prices on steel frames for bridges, for the season, sizes from 10 feet to 32 feet long, legs 5 feet to 14 feet, 18 feet wide; check 10 per cent; J. L. Hughes, county auditor, Stark county.

**S. D., Montrose**—Bids received until 2 p. m., March 2, for galvanized corrugated metal culverts at so much per lineal foot; check \$500; address county auditor; A. E. Ecklein, McCook county.

**S. D., Oacoma**—Bids received until 1 p. m., March 1, for all steel and pile bridges in Lyman county during 1915; check 10 per cent; plans at office of county auditor, Oacoma; F. J. Leggett, county auditor.

**S. D., Vermillion**—Bids received until 10 a. m., Feb. 16, for all wood, steel and concrete bridges in Clay county for 1915; check 10 per cent; plans at office of County Auditor J. T. Olson.

**Wis., Chippewa Falls**—Bids received until Feb. 8, 2 p. m., for following work: (1) a creosoted block floor with sub-floor planking on Chippewa River bridge, approximately 2,200 square yards floor surface; (2) repairing and overhauling bridge; (3) scraping and painting bridge; plans at office of city clerk; check 5 per cent; J. A. Brooks, J. R. Murphy, A. T. Thompson, board of public works.

**Wis., Racine**—Bids received until about March 15, for steel bridge on concrete abutments at Mt. Pleasant; James Mutter, highway commissioner.

#### CONTRACTS AWARDED.

**N. D., Mayville**—Contract awarded to Jardine & Anderson, for erection of new bridge on Goose river, between sections 6-146-52, between Portland and Mayville; Frank L. Bliss, state engineer, Fargo, N. D.

**Wis., Hamilton**—Contract awarded to the Whitewater Bridge Co., for bridge; cost, \$1,366 and \$998.

**Wis., La Crosse**—Contract awarded to Edward Olson of Mindoro, for three bridges in town of Farmington, at cost of \$800, \$555 and \$750.

**Wis., Ladysmith**—Contract awarded to the Wausau Iron Works Co. of Wausau for bridge over Chippewa river, at \$9,769; 350 feet steel.

**Wis., Rhinelander**—Contract will be let at once for bridge in Enterprise; F. E. Parker, county commissioner.

**Wis., Shelby**—Contract awarded to the Lancaster Bridge Co. for bridge; cost \$2,448.

## WATER WORKS

**Iowa, Muscatine**—About 30 blocks of water mains will be constructed by Muscatine Water Works Co., Wm. Molis, superintendent.

**Kans., Junction City**—Eight bridges have been asked for on the recently established county line road between Geary and Riley counties.

**Kans., Larned**—A sum of \$13,000 has been appropriated by the commissioners of Pawnee county, for bridge over the Arkansas river at Garfield; address, county engineer.

**Kans., Larned**—City proposes to install 2 motor driven turbine pumps of 18,000-gallon capacity each; and 6,600 feet of 4-inch water main with 2-hydrants; L. B. Burgers, city clerk, and water superintendent.

**Kans., Topeka**—A. R. Young, city engineer, is preparing

plans for a reinforced concrete bridge over Shunganunga creek on Kansas av.

**Kans., Wellington**—Plans are being prepared by the Wellington Bridge Co. for a bridge over Ninescah river; cost about \$6,000; address county surveyor for further information.

**Minn., Fairfax**—Another city well may be drilled soon; address village council.

**Minn., Gilbert**—Loan aggregating \$75,950 has been approved by the state board of investment, a portion of which will be used to improve the water works system.

**Minn., Gilbert**—Messrs. Kimball & Fay, local civil engineers, have contract for filtration plant here, at \$30,000.

**Minn., Isanti**—Village council is discussing proposition of installing a water works system, Trustees Enquist and Rouvek and President Morast appointed committee; bonds will be voted on at March meeting.

**Minn., Osseo**—Bonds in sum of \$9,000 were voted Jan. 12, for water works system, and \$11,000 for improvements; W. C. Buck, engineer, 4821 Fremont av., Minneapolis.

**Mo., Glasgow**—City proposes to install a centrifugal pump direct connected to electric motor of 432,000 gallons per 24 hours against head of 50 feet; R. L. Blacet, superintendent water works.

**Mont., Billings**—Bonds in sum of \$450,000 reported sold for water works system and improvement and extension of same.

**Neb., Leigh**—Petition circulated asking village to vote on \$10,000 bonds to install an electric light and engine to pump water for city.

**N. D., Mott**—Frank Fietsam has let contract to the Mott Construction Co. for erection of a modern bungalow.

**S. D., Summitt**—Bonds sold for a municipal water works system; estimated cost \$8,000.

**Tex., Austin**—Reports state that the city has had plans prepared by G. S. Iredell, engineer, for a reinforced concrete bridge over Shoal creek; 28 feet wide, 2 spans of 36 feet each; estimated cost \$4,000.

**Wis., Clintonville**—City contemplates installation of one 100-gallon per minute centrifugal pump direct connected to 2,300 volt, 60-cycle, 3-phase electric motor; 6-foot suction, 140-foot head; Geo. C. Stewart, superintendent of water works.

**Wis., Cudahy**—Contract awarded to Nick Tomaro at \$1,381 for water mains; J. C. Dretzka, city clerk.

**Wis., Elkhorn**—Plans are in progress for a water works and artesian well, (addition), by Engineer E. M. Gray Jr., 630 M. & M. Bank building; cost \$6,000; A. C. Olson, city clerk, Elkhorn; well 1,600 feet deep and 8-inch bottom.

**Wis., Manitowoc**—City may install an open well and pumping station; Aug. Pitz, city engineer; 30 feet deep, 55 feet in diameter.

**Wis., Two Rivers**—The common council has passed a resolution to engage a hydraulic engineer to make survey of the water works and Lake Michigan water supply system with a view to enlarging the supply by means of 4,000-foot intake or additional shore wells; El. Bruins, city engineer.

#### BIDS WANTED.

**Minn., Albert Lea**—Bids received until Feb. 11, 5 p. m., for deepening city well, for water works system; plans at office of city clerk, C. J. Dudley; certified check for \$500.

**Minn., Kinney**—Bids desired early in February for extension of water works system and construction of new pumping station, and reservoir, cost about \$10,000; work to include: one 135-gallon deep well, supply pump; one domestic service, 100-gallon centrifugal; one fire service, 500 centrifugal, 100,000-gallon, concrete reservoir; 500 feet new 6-inch Matheson coated pipe; all pumps to be motor driven; S. S. Rumsey, engineer; charge engineer, Oliver Iron Mining Co., Virginia, Minn.

**Minn., St. Paul**—Bids received until 10 a. m., Feb. 8, for stop boxes for city water department; Aug. Hohenstein, city purchasing agent, City Hall.

**Wis., Kenosha**—Bids to be taken this month for lake intake and pumping station, B. C. Brennan, engineer; M. Scholey, mayor.

**Wis., Milwaukee**—Bids received until Feb. 9, for 800 tons of 6-inch and 300 tons of 12-inch class C water pipe; bond of \$7,600, or check \$3,800; F. G. Simmons, commissioner of public works.

**Wyo., Laramie**—Bids received until Feb. 23, 1:30 p. m., for material for water works system extension, to include 15,000 feet 14-inch water works and 3,200 feet 12-inch, cast iron steel stave or concrete pipe, and 200 to 400 tons 6 to 12 inch cast iron pipe; Z. E. Severson, city engineer.

**Wyo., Laramie**—Bids received until Feb. 23, 1:30 p. m., for



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material for water works system; Z. E. Severson, city engineer.

#### CONTRACTS AWARDED.

**S. D., Winner**—Contract awarded to Geo. Tritle, of Winner, for tapping water mains and laying service pipe, at \$21.50 per tap.

### SEWER WORK

**Alta., Calgary**—Council passed by-law to start work at once on a trunk sewer to cost \$246,000. J. M. Miller, city clerk.

**B. C., Vancouver**—Plans for laterals connecting with Canoe creek and China creek trunk sewers in S. Vancouver have been tentatively passed by joint sewerage commission; plan is to submit by-law for about \$400,000 worth of sewers at coming election; A. D. Creer, engineer of board.

**Iowa, Burlington**—Hearing Feb. 18 on combined storm water and sanitary sewer, etc., known as the Gnahm st. sewer and branches, to be of vitrified pipe with mortar joints, or reinforced cement concrete pipe with mortar joints, or segment block with mortar joints, in part, and the remainder to be of vitrified pipe with mortar joints or cement concrete pipe with mortar joints; Robt. Kroppach, city clerk.

**Iowa, Des Moines**—Hearing Feb. 17, on a line of sewers on certain streets; Horace Susong, city clerk.

**Iowa, Wall Lake**—Citizens are agitating for a sanitary sewer system; address city clerk.

**Mont., Great Falls**—Hearing Feb. 16, on a lateral sewer costing about \$980; W. H. Harrison, city clerk.

**Neb., Grand Island**—It is probable that a new sewer drainage system to cost approximately \$100,000 will be voted on at the spring election; address city clerk.

**Neb., Kearney**—Council favors additional sewers on 21st and 22d sts.; address city clerk.

**S. D., Watertown**—Sewer system under discussion to cost \$40,000. Address city clerk.

**Wis., Alma**—A sewer system is being considered by the council; address village clerk.

**Wis., Black River Falls**—Council will take up the matter of sewer work in the spring; P. J. McGillivray, mayor.

**Wis., Flint**—Council has tentatively agreed to call special election for Feb. 17 to vote on bonding for \$95,000 for sewer work; total cost of which will be \$117,000. Address city clerk.

**Wis., Manitowoc**—Following were bids on the proposed Franklin st sewer: W. O. Bahr, \$17,889; H. A. Pitz, \$18,354; Gray-Robinson Co., \$18,935. Bids on the surface drainage on 15th and 16th sts. were as follows: Bahr, \$19,101; Pitz, \$19,810; Gray-Robinson, \$20,110.

**Wis., Oconomowoc**—Board public works ordered to advertise for bids for sewer mains on various streets. Clarence H. Schoenike, city clerk.

**Wis., Park Falls**—City is considering sewer work to the amount of \$3,000 for 1915; J. B. Saunders, city clerk.

**Wis., Racine**—Reported bids will be taken in March on 18th st.; plans for which have been completed; P. H. Connolly, city engineer.

**Wis., Two Rivers**—Hearing Feb. 7 on sewer district north of 24th st. and west of Monroe av.; Jos. Doleysh, city clerk.

#### BIDS WANTED.

**Iowa, Audubon**—Bids received by W. J. Laubender, town clerk, until 1:30 p. m., Feb. 10 for sewage disposal plants, outlet sewers and lateral sewers, for sanitary purposes; check with bids on tanks and outlet sewers at \$1,000 and on lateral sewers at \$1,500. Plans of P. A. Edquist, consulting engineer, Omaha National Bank building, Omaha, for \$5.

**Minn., Dumont**—Bids received by J. R. Heideberger, village clerk, until 8 p. m., Feb. 26, for about 1,400 feet sewer; check 10 per cent.

**Minn., Hibbing**—Bids received by D. D. Haley, village recorder, until 7:30 p. m., Feb. 9, for 40 cast iron manhole covers and heads, weight to be about 350 pounds, also, 50,000 perfectly shaped, smooth-surfaced, hard-burned brick of best quality; check for 20 per cent.

**S. D., Sisseton**—Bids received by city clerk until 2 p. m., March 2, for 6 miles of sewers and a sewage treatment plant; Dakota Engineering Co., Mitchell, S. D.

**Wis., Beloit**—Bids will be asked for at once for sanitary sewers in nine streets and avenues; address city clerk.

**Wis., Merrill**—Bids received by Win J. Keves, city clerk, until 4 p. m., Feb. 9, for a 40-inch sewer 3,072 feet long, either concrete or segmental blocks.

**Wis., Sheboygan**—Bids will be asked for about the middle of February on 440 feet 15-inch d. s. vitrified pipe in Lincoln av., and 300 feet 10-inch pipe in N. 4th st.; C. U. Boley, city engineer.

**Wis., Sheboygan Falls**—Bids will soon be asked for on 800 feet of 30-inch and 200 feet 24-inch sewer; F. R. Kroeger, city clerk.

**Wis., Superior**—Bids received by W. R. Russell, chairman, board public works, until 1 p. m., Feb. 9, for a sewer in Nelson av.; check for 5 per cent.

#### CONTRACTS AWARDED.

**Minn., Tracy**—Contract to J. G. Rea for sewer, water works and a basement for his 3d st. business building.

**Neb., Ravenna**—Contract with Arthur A. Dobson Co., Lincoln, for construction of sewer system, bonds for which were voted last summer.

**S. D., Mitchell**—Contract to Aiken Construction Co., Fargo, N. D., for lateral sewers at \$12,611. Other bidders were: Alamo Eng. Supply Co., Omaha, at \$15,858; Wm. B. Bosworth, Ada, Minn., \$12,613; Pioneer Bridge Co., Mitchell, S. D., \$15,550.

**Wis., Cudahy**—Contract to Nick Tomaro, for sewer mains at \$2,988.

### DRAINAGE AND IRRIGATION

**Colo., Montrose**—Bonds voted for \$60,000 by Lillylands Canal & Reservoir Co. to complete project. Directors elected: Amos Morrell of Hotchkiss; S. J. Miller, Gunnison; J. E. Pearis, Montrose.

**Iowa, Jefferson**—Hearing Feb. 15, on report of Engineer J. F. Blaylock, on ditch petitioned by Riehl et al.

**Minn., Baudette**—Contracts let for three ditches in northern part of Beltrami county: J. C. Parker, contract for ditch No. 23, at \$77,825; S. V. Topping for ditch No. 26 at \$35,000; and Kohler Co. for ditch No. 28, at \$55,900.

**Minn., Fairmont**—Several lettings Feb. 9: judicial ditch 42, 1 p. m., estimated \$22,063; judicial 44, 1:30 p. m., \$13,130; judicial 28, 2 p. m., \$38,674; checks 10 per cent; H. C. Nolte, auditor, Martin county.

**Minn., Glencoe**—Contract let to John S. Anderson, Glencoe, for construction of ditch 26, McLeod county, \$2,868. F. D. Stocking, auditor.

**Minn., Grand Rapids**—Survey completed for county ditch 4, 24 miles long to drain 40 sections; H. E. Nightengale is completing survey for ditch 3, about 35 miles of main and laterals; F. E. Williams has started survey for ditch 5, 25 miles of main and laterals.

**Minn., Madison**—County ditch proposed for 1915 will cost about \$12,000.

**Minn., Mountain Lake**—Bids in 1:30 p. m., Feb. 9 on judicial ditch 12; est. \$3,441; check 10 per cent; S. A. Brown, auditor, Cottonwood county.

**Minn., Ortonville**—Bids in 3:30 p. m., Feb. 17 on ditch 11, Lac qui Parle county, estimated cost \$8,733; check 10 per cent; A. G. Shogren, auditor.

**Minn., Red River Falls**—County tile ditches planned for 1915 will cost \$30,000, \$18,000, \$15,000; James Reynolds, city engineer.

**Minn., Slayton**—First hearing Feb. 13, on proposed judicial ditch 11; Robert Hyslop, clerk district court.

**Minn., Stillwater**—Contract to Scully Bieske of Clarion for judicial ditch No. 4, in Washington and Anoka counties at \$16,495; there were four other bids.

**Minn., St. James**—Hearing Feb. 23, on petition, judicial ditch by Blackstad et al.

**Minn., Walker**—Bids being taken on judicial ditch 2; estimated cost, \$33,028; check 10 per cent; C. D. Bacon, auditor, Cass county.

**Minn., Willmar**—John Norgaard, Granite Falls, appointed engineer for the proposed 50 mile, judicial ditch in Kandiyohi and Meeker counties; R. W. Sandford, attorney, Willmar.

**Minn., Windom**—Contract to Gus Sandelius for county ditch No. 7 at \$8,114.

**Mont., Glasgow**—Appropriations recommended for government irrigation work include \$611,000 for Milk river; \$490,000 for St. Mary's reservoir; Fort Peck Indian reservation, \$346,225.

**Mont., Great Falls**—Contract approved at Washington for the Greenfields distribution system, Sun River project, awarded to O'Connor & Helean, Great Falls, at \$43,691.

**Neb., Alliance**—Box Butte farmers passed a resolution requesting state to give \$15,000 for pump irrigation in Western, Neb.

**Neb., Lincoln**—Senator Bushee of Kimball, introduced a resolution asking congress to survey Lodge Pole and other creek districts, for establishing a pump irrigation district.

**Wyo., Cheyenne**—Jackson Hole Irrigating Co., incorporated, to improve property at Jenny Lake, west side of Snake river. C. C. Carlisle, engineer; Geo. S. Walker, secretary, Industrial club, Cheyenne.





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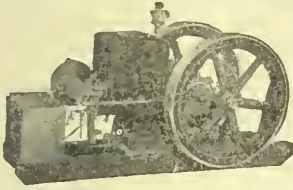
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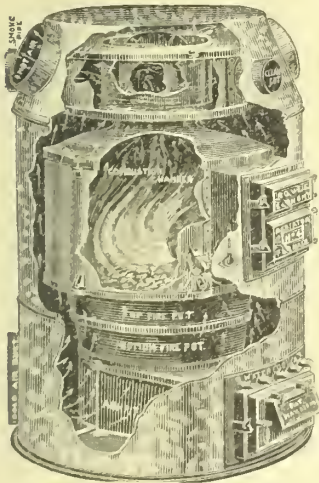
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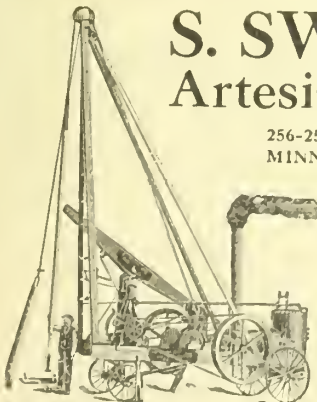
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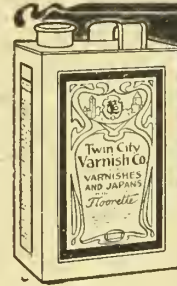
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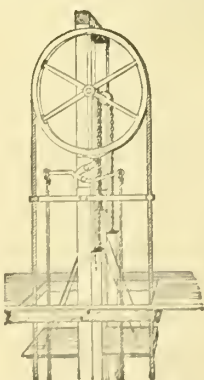
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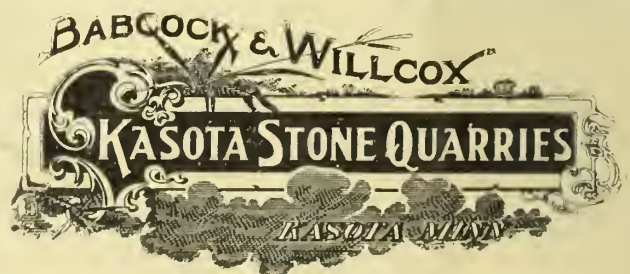
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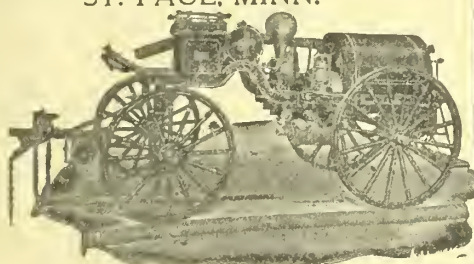
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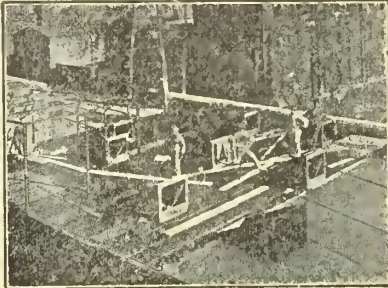
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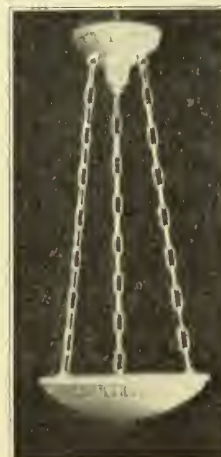
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., February 13, 1915.

Number 11

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WENTWORTH F. CHAPMAN, Manager

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Tel. N. W. Main 3902. T. S. Center 2194.  
St. Paul, Minn.—404 Scandinavian-American Bank Building. Tel. Cedar 1683.

### CORRESPONDENCE.

You are invited to send news and comments along lines of your business to Minneapolis office not later than Thursday of each week.

### SUBSCRIPTIONS.

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### ADVERTISEMENTS.

For less than three pages in a year, \$25.00 a page. One page weekly, 52 pages a year, \$22.50 per page. Half page weekly, \$52.65 per month. Quarter page weekly, \$24.00 per month. Eighth page weekly, \$13.00 per month. New advertisements received up to Thursday noon the week of issue.

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Advs. marked † appear in the 1st issue of the month.

Advs. marked ‡ not in this issue.



# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

## ARCHITECTURAL MODELING.

Hydraulic Press Brick Co. Minneapolis, Minn.

H. F. Lott & Co. Mpls. and St. Paul, Minn.

## ARCHITECTS' SUPPLIES.

Minneapolis Blue Ptg. Co. Mpls., Minn.

ASBESTOS AND MAGNESIA PRODUCTS.

Haakinson & Beatty Co. Sioux City, Iowa

W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co. Duluth, Minn.

W. S. Nott Company. Minneapolis, Minn.

## ARTESIAN WELLS.

J. F. McCarthy. Minneapolis, Minn.

S. Swenson Artesian Well Co. Minneapolis, Minn.

## BANKS.

Northwestern National Bk. Mpls., Minn.

## BANK AND STORE FIXTURES.

H. W. Johns-Manville Co. Minneapolis

Northwestern Fixture & Cabinet Co. Minneapolis, Minn.

## BOILERS.

Andrews Heating Co. Minneapolis, Minn.

Associate Mfrs. Supply Co. Mpls., Minn.

Crane & Ordway Co. St. Paul, Minn.

Hayes Heating Co. Minneapolis, Minn.

Mechanical Specialty Co. Minneapolis, Minn.

## BONDS—SURF.

Hood & Matschke Co. Minneapolis, Minn.

Wm. B. Joyce & Co. Mpls. St. Paul, Minn.

## BRASS GOODS.

National Mfg. & Supply Co. Mpls., Minn.

## BRICK AND TILE.

American Brick & Tile Co. Mason City, Ia.

Belt Line Brick Co. Minneapolis, Minn.

Boone Brick, Tile & Paving Co. Boone, Ia.

Chaska Brick & Tile Co. St. Paul, Minn.

Dickinson Brick Co. Dickinson, N. D.

Excelsior Brick Co. Menomonie, Wis.

Flint Brick Co. Des Moines, Ia.

General Western Material Co. Waterloo, Ia.

Haakinson & Beatty Co. Sioux City, Iowa

Hebron Fire & Pressed Brick Co. Hebron, N. D.

Hydraulic Press Brk. Co. Minneapolis, Minn.

Johnson, Jackson & Corning Co. Minneapolis and St. Paul, Minn.

Lehigh Sewer Pipe & Tile Co. Fort Dodge, Iowa

Mason City Brick & Tile Co. Mason City, Ia.

Rufus P. Morton. Princeton, Minn.

National Fireproofing Co. Minneapolis, Minn., and Chicago, Ill.

Northwestern Fireproofing Co. Mpls., Minn.

A. C. Ochs Brick & Tile Co. Springfield, Minn.

Red River Valley Brick Corporation. Grand Forks, N. D.

Shakopee Cement Lime Co. St. Paul, Minn.

Shevlin-Carpenter Lumber Co. Minneapolis

Sioux City Brick & Tile Works. Sioux City, Ia.

Standard Salt & Cement Co. Duluth, Minn.

St. Paul Lime & Cement Co. St. Paul, Minn.

Twin City Brick Co. St. Paul-Mpls., Minn.

## BRIDGES.

American Bridge Co. Minneapolis, Minn.

Clinton Bridge Works. Clinton, Ia.

Corrugated Bar Co. St. Paul, Minn.

Crown Iron Works Co. Minneapolis Steel & Mach. Co. Mpls., Minn.

Haakinson & Beatty Co. Sioux City, Iowa

N. W. Concrete Steel Co. Minneapolis, Minn.

St. Paul Foundry Co. St. Paul, Minn.

## BUCKETS—CONTRACTORS'.

H. B. Jones. Security Bank, Minneapolis

G. E. Ingersoll & Co. St. Paul, Minn.

## BUILDING MATERIAL.

Baxter Sash & Door Co. Duluth, Minn.

Blesanz Stone Co. Winona, Minn.

Carr-Cullen Co. Minneapolis, Minn.

Dunlop-Moore Co. Duluth, Minn.

General Western Material Co. Waterloo, Ia.

Haakinson & Beatty Co. Sioux City, Iowa

Hydraulic Press Brick Co. Minneapolis, Minn.

H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co. Mpls. and St. Paul, Minn.

Landers-Morrison-Christensen Co. Minneapolis, Minn.

W. S. Nott Company. Minneapolis, Minn.

Oswood & Blodgett Mfg. Co. St. Paul, Minn.

Scott-Graff Lumber Co. Duluth, Minn.

Shakopee Cement Lime Co. St. Paul, Minn.

Shevlin-Carpenter Lumber Co. Minneapolis

The Northwestern Lime Co. St. Paul, Minn.

Standard Salt & Cement Co. Duluth, Minn.

## BUILDERS' SPECIALTIES.

Dunlop, Moore Co. Duluth, Minn.

Haakinson & Beatty Co. Sioux City, Iowa

Hydraulic Press Brick Co. Minneapolis, Minn.

Paine & Nixon Co. Duluth, Minn.

Standard Salt & Cement Co. Duluth, Minn.

G. A. Turner. Minneapolis, Minn.

## CALKING PASTE.

Minnesota Weatherproof Calking & Glaz-

ing Co. Minneapolis, Minn.

W. S. Nott Company. Minneapolis, Minn.

## CEMENT.

Atlas Portland Cement Co. Minneapolis

Carney's Cement Works. Mankato, Minn.

Fowler & Pav. Mpls. and Mankato, Minn.

General Western Material Co. Waterloo, Ia.

Hydraulic Press Brick Co. Minneapolis, Minn.

Landers-Morrison-Christensen Co. Minneapolis, Minn.

N. W. Johns-Manville Co. Minneapolis, Minn.

N. W. States Portland Cement Co. Mason City, Iowa

Shakopee Cement Lime Co. St. Paul, Minn.

Standard Salt & Cement Co. Duluth, Minn.

Speake's Lime & Cement Co. Superior, Wis.

Shevlin-Carpenter Lumber Co. Minneapolis

St. Paul Lime & Cement Co. St. Paul, Minn.

Universal Portland Cement Co. Minneapolis

## CELLS, STEEL.

Crown Iron Works Co. Minneapolis

Minneapolis Steel & Mach. Co. Mpls., Minn.

St. Paul Foundry Co. St. Paul, Minn.

## CEILING, STEEL.

Badger Steel Roofing & Corrugating Co. La Crosse, Wis.

Berger Mfg. Co. Minneapolis, Minn.

Canton Steel Ceiling Co. Minneapolis, Minn.

Haakinson & Beatty Co. Sioux City, Iowa

H. W. Johns-Manville Co. Minneapolis

H. C. Thomas & Bro. La Crosse, Wis.

## CEMENT FILLER.

Hydraulic Press Brick Co. Minneapolis, Minn.

W. S. Nott Company. Minneapolis, Minn.

Standard Salt & Cement Co. Duluth, Minn.

## COAL CHUTES.

American Bridge Co. Minneapolis, Minn.

Avery Steel & Iron Co. Minneapolis

Crown Iron Works Co. Minneapolis

Enterprise Iron Works. Albert Lea, Minn.

Gardner Hardware Co. Minneapolis, Minn.

General Western Material Co. Waterloo, Ia.

Haakinson & Beatty Co. Sioux City, Iowa

Interstate Mfg. Co. Oskaloosa, Ia.

Majestic Furnace & Fdy. Co. Mpls., Minn.

Northern Insulating Co. St. Paul

Standard Salt & Cement Co. Duluth, Minn.

St. Paul Foundry Co. St. Paul, Minn.

## COLD STORAGE PLANTS.

Chas. A. Berger. Minneapolis, Minn.

H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company. Minneapolis, Minn.

## CONCRETE CONSTRUCTION.

Avery Steel & Iron Co. Minneapolis

Corrugated Bar Co. St. Paul, Minn.

C. A. P. Turner. Minneapolis, Minn.

## CONTRACTORS LEVELS AND SUPPLIES.

David White Co. Milwaukee, Wis.

## CONCRETE MACHINERY.

Atlas Engineering Co. Milwaukee, Wis.

Badger Concrete Mixer Co. Milwaukee, Wis.

Brasstad Concrete Mach. Co. Canton, S. D.

Cement Tile Machinery Co. Waterloo, Ia.

Chain Belt Co. Milwaukee, Wis.

Contractors Machinery Co. Keokuk, Iowa

G. E. Jagersoll & Co. St. Paul, Minn.

Koehring Machine Co. Minneapolis, Minn., and Milwaukee, Wis.

The Lansing Co. Minneapolis, Minn.

N. W. Concrete Steel Co. Minneapolis.

N. W. Steel & Iron Works. Eau Claire, Wis.

Standard Salt & Cement Co. Duluth, Minn.

Milwaukee Concrete Mixer Co. Milwaukee, Wis.

Waterloo Cement Machinery Co. Waterloo, Iowa

Ellis Woolman. Minneapolis, Minn.

E. Wege Concrete Machinery Co. La Crosse, Wis.

## CONCRETE REINFORCING BARS.

Avery Steel & Iron Co. Minneapolis

Inland Steel Co. St. Paul, Minn.

Corrugated Bar Co. St. Paul, Minn.

General Western Material Co. Waterloo, Ia.

Haakinson & Beatty Co. Sioux City, Iowa

N. W. Concrete Steel Co. Minneapolis, Minn.

Minneapolis Steel & Mach. Co. Mpls., Minn.

Northwestern Steel & Iron Works. Eau Claire, Wis.

St. Paul Foundry Co. St. Paul, Minn.

## CORNICES.

Badger Steel Roofing & Corrugating Co. La Crosse, Wis.

Berger Mfg. Co. Minneapolis, Minn.

Griffin & Boehme. St. Paul, Minn.

F. V. Haverland. Minneapolis, Minn.

Milwaukee Corrugating Co. Milwaukee, Wis.

Minnesota Roofing & Cornice Works. St. Paul, Minn.

W. S. Nott Company. Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornament Co. St. Paul, Minn.

H. C. Thomas & Bro. La Crosse, Wis.

## CORRUGATED IRON, ETC.

Badger Steel Roofing & Corrugating Co. La Crosse, Wis.

Avery Steel & Iron Co. Minneapolis

Berger Mfg. Co. Minneapolis, Minn.

Corrugated Bar Co. St. Paul, Minn.

American Bridge Co. Minneapolis, Minn.

## CONCRETE REINFORCING.

Berger Mfg. Co. Minneapolis

Inland Steel Co. St. Paul, Minn.

N. W. Concrete Steel Co. Minneapolis, Minn.

## CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co. St. Paul, Minn.

Mertes Machinery Co. Milwaukee, Wis.

Standard Salt & Cement Co. Duluth, Minn.

Ellis Woolman. Minneapolis, Minn.

## CULVERTS.

Berger Mfg. Co. Minneapolis, Minn.

Piesanz Stone Co. Winona, Minn.

Gallon Iron Works. Minneapolis, Minn.

Klauser Mfg. Co. Dubuque, Iowa

Minneapolis Steel & Mach. Co. Mpls., Minn.

## CRUSHED STONE.

Fowler & Pav. Mankato, Minn.

General Western Material Co. Waterloo, Ia.

Kettle River Co. Minneapolis, Minn.

Klauser Mfg. Co. Dubuque, Ia.

Mantorville Stone Co. Mantorville, Minn.

New Ulm Stone Co. New Ulm, Minn.

Standard Salt & Cement Co. Duluth, Minn.

Widell Co. Mankato, Minn.

## DEADENING MATERIAL.

Cement Tile Machinery Co. Waterloo, Ia.

Haakinson & Beatty Co. Sioux City, Iowa

Hydraulic Press Brick Co. Minneapolis, Minn.

H. W. Johns-Manville Co. Minneapolis, Minn.

Northern Insulating Co. Minneapolis, Minn.

St. Paul Foundry Co. St. Paul, Minn.

Standard Salt & Cement Co. Duluth, Minn.

Union Fibre Co. Winona, Minn.

## DECORATIONS.

Odin J. Oyen. La Crosse, Wis.

## DITCHING MACHINES.

Bay City Dredge Works. Bay City, Mich.

United Iron Works. Springfield, Mo.

## DREDGES.

Bay City Dredge Works. Bay City, Mich.

## ELECTRICAL ENGINEERING.

Beck Electrical Construction Company. Minneapolis, Minn.

Minneapolis Electric Equipment Co. Minneapolis, Minn.

## ELECTRIC MOTORS AND SUPPLIES.

Beck Electrical Construction Company. Minneapolis, Minn.

H. W. Johns-Manville Co. Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis Electric Equipment Co. Minneapolis, Minn.

Sterling Electric Co. Minneapolis, Minn.

## ELEVATORS AND ENCLOSURES.

Kimball Bros. Council Bluffs, Iowa

Gust Lagerquist. Minneapolis, Minn.

Lee & Hoff Mfg. Co. St. Paul, Minn.

Frank A. Pigeon. Minneapolis, Minn.

## ELEVATOR CABS.

N. W. Fixture & Cabinet Co. Mpls., Minn.

## ENGINEERS.

Oscar Claussen Engineering Co. St. Paul, Minn.

Walter H. Flood. Chicago, Ill.

Lewis A. Larsen. St. Paul, Minn.

Charles L. Pillsbury. Minneapolis, Minn.

L. P. Wolff. St. Paul, Minn.

M. B. Stone. Minneapolis, Minn.

W. P. Cowles. Minneapolis, Minn.

Power Engineering Co. Minneapolis,



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can be found by referring to the Alphabetical List of Advertisers

## INSULATING MATERIAL.

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Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Milwaukee, Wis.  
Northern Insulating Co.....St. Paul  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

## INSURANCE.

Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Des Moines Structural Steel Works.....Des Moines, Iowa

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenreither Co.....Dubuque, Ia.  
Youngtown Iron & Steel Co.....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

Haakinson & Beatty Co.....Sioux City, Iowa  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....St. Paul Foundry Co.....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co.....Chicago, Ill.

## LIME.

General Western Material Co.....Waterloo, Ia.  
Fowler & Pay.....Mpls. and Mankato, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakey Lime & Cement Co.....Superior, Wis.  
Shevlin-Carpenter Lumber Co.....Minneapolis  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

## MANTLES-GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
W. S. Nott Company.....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co.....Minneapolis  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Shevlin-Carpenter Lumber Co.....Minneapolis  
St. Paul Lime & Cement Co.....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graft Lumber Co.....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation.....Iowa City, Iowa

## STANDARD SALT & CEMENT CO.

Duluth, Minn.

## MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis  
Builders Iron Works Co.....Minneapolis  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis  
Jackson Mineral Paint Works.....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co.....New York, N. Y.

## PIPE-CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

## PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.

## PLASTER-WALL.

General Western Material Co.....Waterloo, Ia.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Plymouth Gypsum Co.....Fort Dodge, Ia.

Shakopee Cement Lime Co.....St. Paul, Minn.

Shevlin-Carpenter Lumber Co.....Minneapolis

St. Paul Lime & Cement Co.....St. Paul, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## PLASTERING-ORNAMENTAL.

Monarch Co.....St. Paul, Minn.

Roy Curtis.....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co.....Minneapolis, Minn.

## PLASTIC ORNAMENTS.

Monarch Co.....St. Paul, Minn.

K. F. Lott & Co.....Mpls. and St. Paul, Minn.

## PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co.....Chicago, Ill.

Crown Iron Works Co.....Minneapolis

PLUMBING AND HEATING JOBBERS.

## POWER PLANTS.

National Mfg. & Supply Co.....Mpls., Minn.

## REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works.....Minneapolis, Minn.

Russell Grader Mfg. Co.....Minneapolis, Minn.

## ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co.....Duluth, Minn.

Minnesota Roofing & Cornice Works.....St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.

Scribner-Libby Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.

Selden Roofing & Manufacturing Co.....Minneapolis, Minn.

## ROOFING-METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Duluth Corrugating & Roofing Co.....Duluth, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

La Crosse Steel Roofing & Corrugating Co.....W. S. Nott Company.....Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.

N. W. Roofing, Cornice & Stamping Works.....Minneapolis, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Barrett Mfg. Co.....New York, N. Y.

Biesanz Stone Co.....Winona, Minn.

Corrugated Bar Co.....St. Paul, Minn.

General Western Material Co.....Waterloo, Ia.

Hydraulic Press Brick Co.....Minneapolis, Minn.

John Leslie Paper Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.

Shevlin-Carpenter Lumber Co.....Minneapolis

Standard Salt & Cement Co.....Duluth, Minn.

## ROOFING AND SIDING-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis

## SAND AND GRAVEL.

Mason City Sand & Gravel Co.....Mason City, Ia.

## SHINGLES-RUBBER.

W. S. Nott Company.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co.....Winona, Minn.

General Western Material Co.....Waterloo, Ia.

Standard Salt & Cement Co.....Duluth, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co.....Duluth, Minn.

Carr-Cullen Co.....Minneapolis, Minn.

Osgood & Blodgett Mfg. Co.....St. Paul, Minn.

Scott-Graft Lumber Co.....Duluth, Minn.

Shevlin-Carpenter Lbr. Co.....Minneapolis

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co.....Sioux City, Iowa  
Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.  
Lehigh Sewer Pipe & Tile Co.....Fort Dodge, Iowa  
Northwestern Lime Co.....St. Paul, Minn.  
Plymouth Clay Products Co.....Red Wing, Minn.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## SHADE ADJUSTERS.

Wm. J. Work.....St. Paul, Minn.

## SHEETS-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa

Inland Steel Co.....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.

Avery Steel & Iron Co.....Minneapolis

Crown Iron Works Co.....Minneapolis

Berger Mfg. Co.....Minneapolis, Minn.

General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa

K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Haakinson & Beatty Co.....Sioux City, Iowa

Peerless Marble & Tile Co.....Minneapolis

Twin City Tile & Marble Co.....Minneapolis

## SKYLIGHTS.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Haakinson & Beatty Co.....Sioux City, Iowa

Krieger-Jamar Co.....Duluth, Minn.

St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co.....Minneapolis

W. S. Nott Company.....Minneapolis, Minn.

## STEEL-BARS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis

Haakinson & Beatty Co.....Sioux City, Iowa

Inland Steel Co.....St. Paul, Minn.

Twin City Tile & Marble Co.....Mpls., Minn.

## STONE.

Babcock & Wilcox.....Kasota, Minn.

Biesanz Stone Co.....Winona, Minn.

Edw. Edinger Co.....Cedar Rapids, Ia.

Kettle River Co.....Minneapolis, Minn.

Duluth Cut Stone Co.....Duluth, Minn.

Mantorville Stone Co.....Mantorville, Minn.

New Ulm Stone Co.....New Ulm, Minn.

Pioneer Granite Co.....St. Cloud, Minn.

Sauk Rapids Granite Co.....Sauk Rapids, Minn.

Wm. Penn Stone Co.....Minneapolis, Minn.

The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Inland Steel Co.....St. Paul, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa

## TANKS-STEEL.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## TANKS-WOOD.

Twin City Tank, Silo & Specialty Co.....Minneapolis, Minn.

## TERRA COTTA.

Belt Line Brick Co.....Mpls. and St. Paul

General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa

Hydraulic Press Brick Co.....Minneapolis, Minn.

Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.

K. F. Lott & Co.....Minneapolis and St. Paul, Minn.

## THEATER EQUIPMENT.

The Monarch Co.....St. Paul, Minn.

TILE-CLAY-PARTITION AND FLOOR.

Hydraulic Press Brick Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.

North Star Varnish Co.....Minneapolis, Minn.

Twin City Varnish Co.....St. Paul, Minn.

## VALVES.

Crane Co.....Minneapolis, Minn.

Crane & Orday.....St. Paul, Minn.

Mechanical Specialty Co.....St. Paul, Minn.

## VENTILATING SYSTEMS.

Arex Company.....Chicago, Ill.

Hackney Ventilating Co.....Minneapolis, Minn.

J. C. Kernchen.....Chicago, Ill.

G. A. Turner.....Minneapolis, Minn.

## WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

## WATERPROOFING.

General Western Material Co.....Waterloo, Ia.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co.....St. Paul, Minn.

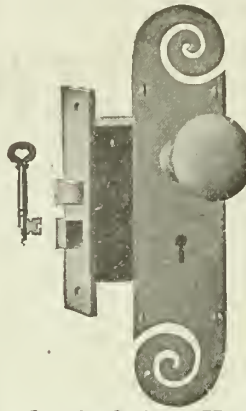


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## W. K. MORISON & CO.

Builders Hardware, Tools,  
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15 So. 7th St., Minneapolis, Minn.



## WARREN DESIGN COLONIAL

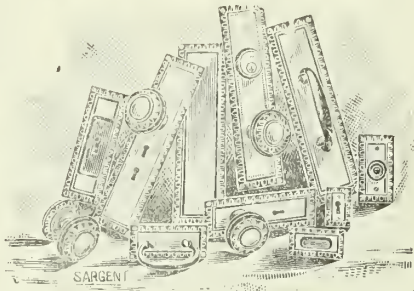
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hardware provides the  
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signs and honest work-  
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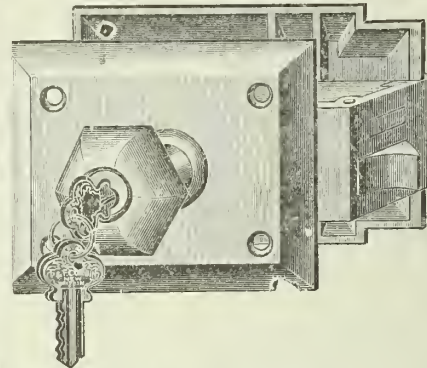
## SARGENT'S Artistic HARDWARE

Estimates fur-  
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Contractors'  
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## GARDNER HARDWARE CO.

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Specialty of fine  
Builders' Hard-  
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ADAM DECKER HARDWARE CO. 347-49 JACKSON ST.  
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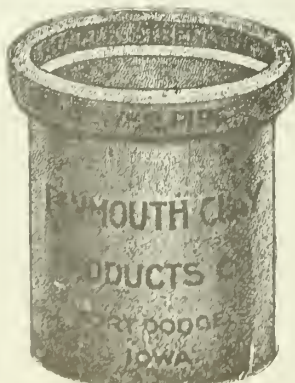
*Large Drain Tile*

*Sewer Pipe*

*Well Pipe*

*Flue Linings*

*Wall Coping*



Face Brick      Enameled Brick  
Architectural Terra Cotta  
Metal Lath  
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ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, FEBRUARY 13, 1915

NUMBER 11



## EDITORIAL



O. L. COLBURN, Editor

### ARCHITECT URGES LICENSE LAW.

Facts are continually developing to prove that Minnesota needs a law requiring architects to have a state license. The Improvement Bulletin has urged action in numerous instances, and presented conditions in the building field which, to a fair-minded person, seemed to make it imperative that a license law be written on the statute books at the earliest possible moment. We have called attention to the big and increasing percentage of buildings going up without the services of any architect. The number and the size and cost of structures whose permits show the name of no architect seem to be growing more rapidly than ever this year. They include store and office buildings and many flats, none of the largest and finest type, it is true, but still of a valuation in each instance which makes these improvements important. This means that the inspection of the construction of these large buildings depends upon the city building inspection bureau. If an architect were engaged his inspection would be constant. The city, with its staff looking after all construction within its extended limits, does the best it can.

The situation has evoked an appeal from a Minneapolis architect, L. A. Lamoreaux. He goes so far as to say that it would be a safe assertion that not one tenement, apartment building or residence in twenty has the care of an experienced architect. They are constructed by men who have had no experience or training in planning of buildings, who have no idea of the proper light or the desirable amount of area of a lot to be covered by the building to get the best results, and who have given no attention to ventilation or heating problems. How could you expect other results?

Mr. Lamoreaux says further: "Why do people, when they are to spend thousands of dollars, not go to someone who has made a life study of planning problems? Their own comforts as well as incomes would be greatly increased. Their buildings would not depreciate as rapidly, and most of the evils complained of in the 'housing problem' book would be done away with. Many of our more progressive states now require that all practicing architects be licensed. It should be done for the good of the people, as the health of the whole community depends upon the dwellings we live in, depends on light and air and good sanitation. States having such laws require that all buildings erected have the approval of a licensed architect. It would probably not be too strong a statement to say that the health of the community depends as much on the designers of our homes as it does upon our doctors.

"With a general law applying to all cities, and a law requiring a licensing of all architects, the same as doctors are now licensed, and the stamp of approval of some one of those men on all new work undertaken, most of the difficulties in the housing question would be solved. Most of our architects, in addition to several years' training in school, get from six to ten years' experience as draftsmen in an architect's office before attempting to do designing on their own responsibility. Good results can only be had by intelligent guidance."

### LOSS DUE TO LARGE AREA.

Large areas often result not only in the total destruction of burning buildings, but in serious injuries and loss of life. A \$130,000 fire in the warehouse of Barker Bros., Los Angeles, Cal., the result of which is shown, clearly demonstrated this fact. The fire was in the center of a large building and the fire department was seriously handicapped in its work because of the impossibility of getting at the flames due to large volumes of smoke. Five firemen were injured.

### PUBLIC WORK APPROPRIATIONS.

Appropriations for three public buildings in Minnesota are included in the sundry civil appropriation bill introduced in the house—\$29,000 for Lake City, \$10,000 for Little Falls, and \$10,000 for Anoka.

Three buildings are provided for in North Dakota—\$20,000 for Minot, \$11,000 for Mandan, and \$5,000 for Williston. For the maintenance of Battle Mountain sanatorium in South Dakota, \$162,000 is appropriated, \$2,500 for Wind Cave, South Dakota, and \$1,000 for public improvements at Redfield, S. D.

The Belle Fourche irrigation project, in South Dakota, is given \$144,000, while \$25,000 is included for a pumping project in North Dakota, and \$70,000 for the irrigation project on the Lower Yellowstone in Montana and North Dakota. For Milk River and Sun River irrigation projects in Montana, \$1,100,000 each is appropriated, and \$150,000 for the Huntley project.

### NOTES OF THE WEEK.

In the Tribune Monday there was an earnest appeal to citizens thinking of building, to do it now—at once—and save money. The appeal was beneficial. It would have been more so if it had been made a month or two ago. It was shown that owners could save considerable percentages in labor and material. Spring activity is just beginning to begin, and the situation will not long remain so advantageous as regards the contractors.

Compensation law is a success in Wisconsin according to C. H. Crownhart, chairman of the Industrial Commission of that state. In 1914 compensation was paid to 11,775 injured men under the provisions of the compensation law, said Mr. Crownhart. The total amount of compensation paid, together with payments for medical attendance, was \$1,080,675.22. Over 11,000 of the men were paid compensation without hearings or expense to them of any kind. The commission held 450 hearings during the year and entered 143 awards by stipulations, making 699 awards during the year.

Gov. Hammond at the annual banquet of the St. Paul Builders' Exchange called attention to what he designated as the "mosquitoes of humanity"—the narrow-minded, the small, the mean, the prejudiced. There are many men in every walk of life, who squint at the world through a transit of their own selfish interests and think they are real surveyors. They are only engaged in the process of driving stakes about that part of the world they desire to own. Architects and contractors, engineers and contractors, sometimes show a too-narrow view in their business relations. The bigger the men the better the co-operation.

"Charge for bids" is the suggestion of President Geo. F. Reeker of the Brown County Contractors & Builders' Association, Green Bay, Wis. In a talk to the exchange he referred to statements that owners and architects accepted proposals from irresponsible contractors and from beginners. A fee of one-fourth of 1 per cent was suggested to be paid to the low bidder and a smaller fraction to the others, by the owner.

Discussion of the bill in the Minnesota legislature (North bill) to prevent promiscuous use of money and material by contractors who have several jobs at the same time, by providing a severe penalty for diverting money or material from its own contract work, brought out a good deal of earnest opinion at the Minneapolis Builders' Exchange meeting but it was shown that the honest contractor had nothing to fear as intent to misuse funds or material would have to be proved. Bookkeeping for each job would have to be done. It will prevent paying twice for materials and tend to increase prompt payment of bills. The bill has evoked editorial comment. The Duluth Herald says it will remedy a condition which ought never to have been permitted to exist.



**PORCELAIN HOUSE BUILT WITH SCREW DRIVER.**

Some interesting particulars have just come to hand regarding a home of porcelain which can be erected in a few hours with a screw driver and wrench. It is the plan of W. H. Turner of England, and furnishes the following details:

"In the construction of the porcelain house there is a complete absence of all absorbent materials, such as brick and mortar, plaster, whitewash, concrete, woodwork and paper. The complete porcelain house is constructed as follows: framework, preferably of light, rustproof metal. In this framework are fitted the huge porcelain panels, half an inch thick, six feet long and three feet wide, weighing five pounds to the superficial foot, decorated and glazed on both sides, to resist wind, storm and weather, with steamtight joints, made of copper-coated asbestos tape.

"Porcelain is nonabsorbent, insect and germ proof, fire-proof and washable, and it makes possible for all a perfectly hygienic home. As for warmth—an inch-thick wall of pure porcelain glazed on both sides is better able to keep out cold than an eighteen inch brick wall. With bricks and mortar it takes months to erect a house of, say, five rooms; a porcelain house of the same size can be put up in a few hours."

**IDEAL CINCINNATUS BATCH MIXERS.**

The Ideal Concrete Machinery Company of Cincinnati, Ohio, are offering the trade a line of mixers of unusual merit.

The Cincinnati mixers are manufactured in two different sizes, having 7 cubic feet and 12 cubic feet capacity, respectively. Each size is manufactured in four different types. One being the regular equipment, which is illustrated herewith; the others batch hopper equipment, power loader outfit and rear discharge street paving outfit.

The prices for these equipments are very reasonable considering the quality and capacity; and the Ideal Concrete Machinery Co. will be pleased to give any request for literature prompt and courteous attention.

**PACKARD MIXERS.**

The catalogs that the Contractors' Machinery Co., of Keokuk, Iowa, are mailing out, show a very neatly designed, sturdy, compact, 5 cubic foot capacity mixer at prices of from \$78 to \$185.

They also equip their mixers with a low loading hinged platform only 22-inch from ground. The measuring batch hopper which increased capacity about 25 batches a day by the same number of men is only 42 inches from the ground.

You will notice in their catalog that the Packard mixers have plenty of power, having a 3 h. p. gasoline engine with a 4¼x6-inch cylinder. The engine is housed with a steel automobile housing.

**BRICK LAYING IN FREEZING WEATHER.**

Brick work in lime mortar should not be laid in freezing weather. If the temperature is below 40 degrees Fahrenheit and liable to fall below 32 degrees at night, salt should be mixed with the mortar, the bricks heated before laying, and the top of the wall covered with boards and straw at night. If the mortar at any part becomes frozen, the courses in that part of the wall should be removed and cleaned before the bricks are used again.

Cement mortar is not injured by frost after the first set has taken place. It may be used in freezing weather if precautions are taken by heating the materials, by protecting the walls, or by the use of salt, to prevent freezing before the set has taken place, otherwise a sudden thaw is liable to soften the mortar and cause settlement. It is not considered good practice to attempt to lay bricks in temperature below from 17 degrees to 23 degrees Fahrenheit unless the walls are in warmed enclosures.

Lime in the mortar retards the setting, and mixing the mortar with hot water hastens the set and keeps the walls warm longer. Salt amounting to one-fifth per cent to six per cent of the water by weight will prevent frost, but is objected to by many on account of a resulting tendency to efflorescence. Higher percentages retard the setting and reduce the strength at short periods. In any case the bricks should not be freezing cold, nor wet, and they must at all times be clean.

**NEW LOW-PRICED MIXER BY RELIABLE COMPANY.**

The Rex is a new low-priced mixer manufactured by the Chain Belt Co., Milwaukee. The Rex mixer offers the contractor an opportunity to obtain at a reasonable price a high quality, low changing machine. The company is able to sell this mixer at a low figure on account of the low feed which does away with the power loader or side loader that is generally used on our Chain Belt mixers. The REX is designed for the contractor who builds concrete silos, culverts, basements, floors and other work where the purchase of a higher priced machine would not probably be justified. The company can sell this quality machine at a low figure for the reason that it manufactures all of its parts except the gasoline engine. It owns and operates malleable iron, grey iron and steel foundries, machine and structural shops. The REX mixer is guaranteed for one year against inherent defects in workmanship and material. This guarantee does not include the Novo gasoline engine, but this has the same guarantee placed upon it by the Novo Engine Co. The price of The Rex is \$275 f. o. b. Milwaukee.

It comes every week—send \$5 check today for one year of The Improvement Bulletin.



Art glass windows in an artistic part of the permanent exhibit rooms of the St. Paul Builders Exchange. (An article describing this feature appeared in The Improvement Bulletin, Jan. 23.)



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

"I want a pep man" is the announcement of Ralph E. Sunderland, vice president of Sunderland Bros. Co., Omaha. This man, full of "pep," must have a knowledge of building specialties. In the invitation to write to him, appears Mr. Sunderland's picture. He was at a hotel in Chicago during the cement show and used the picture to help applicants to find him in the crowds. He wants this "pep" man to manage an establish business in the line mentioned.

"Flirtation urged by an expert" was the pleasurable statement in a cotemporary. Hopes fell when the context showed he meant "filtraton."

The Lawrence-McCann Co. received a final payment of 8c on sewer work for Virginia, Minn., amounting to \$118,000. City Clerk A. E. Beckford, checking up, found the startling discrepancy and promptly rushed an order through the council and mailed the check for 8 cents.

Improvements in a newspaper office called forth a remark by a rival that the new office had more furniture than brains. Interior decoration sometimes runs to this.

B. Frank Pay of Fowler & Pay, Mankato, Minn., as presiding officer of the N. W. Clay Association, annual session, showed exceptional qualifications for such responsibilities.

M. W. Potter of Red Lodge, Mont., has invented a sectional concrete culvert with interlocking device and keystone fastening.

M. H. Murphy, Manitowoc, Wis., was elected president of the Schuette Cement Construction Co. of that city and the name changed to Murphy Construction Co. The capital was increased from \$10,000 to \$25,000. H. C. Schuette is vice president, H. E. Murphy, secretary. Manitowoc street paving prospects.

John Buehler, after fourteen years in the cement works business at Portage, Wis., has sold to Anson Wagner of Pontiac, Ill. Mr. Buehler will engage in selling gasoline systems for the American Gas Machine Co., of Albert Lea.

Maas & McAndrew Co. of Rochester, Minn., plumbers, has enlarged its quarters, to take care of increased business.

W. G. Reed, contractor, Butte, Mont., has returned after a month in California.

Construction in Minneapolis in January, 1915, was virtually the same as in 1914.

W. H. Corcoran, R. H. Goodwin and E. R. Young, Beloit, Wis., have incorporated the Rex Gasometer Co.; \$35,000; to make measuring devices for gasoline, oil and gas.

The power plant of the Rockwell Manufacturing Co., Milwaukee, will be remodeled and enlarged on plans by Thos. Watson, engineer, Milwaukee. New boilers, power equipment, generators and motor. The company makes hardwood finish and flooring.

August Moeller, county highway commissioner at Sturgeon Bay, Wis., was one of those who went to the fourth annual road school of the Wisconsin Highway Commission, at Madison, last week.

Building situation at Crookston is improving. Many plans have been started. Crookston Milling Co. will build a warehouse and elevator; storage plant for Peter Fox & Sons; plant and garage for the Crookston Cordage Co.

The number of fireproof buildings built in Minneapolis during 1914 was double that of 1913. The number of concrete reinforced buildings was the same. The total cost of the fireproof buildings put up in 1914 was ten times greater than in 1913.

A motion picture film and lecture were presented at the U. of M., Jan. 19, by the U. S. Gypsum Co., on the production of gypsum and its commercial applications. The principal building products derived from it are gypsum plaster for ornamental work; wall blocks and fireproof board, to be used in place of lath in wall partitions. Special emphasis was laid on the fire- and sound-proof qualities of these products as well as light weight. Mr. Wharton Clay, an architectural engineer and a graduate of the university of Illinois, gave the lecture.

W. F. Callahan Construction Co., Omaha, Neb., and the T. C. Stevens Co., Des Moines, Ia., were awarded contracts for the Fabius river drainage district supervisors for levee and ditch work involving an expenditure of over \$300,000! will reclaim more than 15,000 acres of Mississippi river bottoms between Hannibal, Mo., and La Grange.

B. F. Affleck has been elected president of the Universal Portland Cement Co., owned by the United States Steel corporation, to succeed Edward M. Hagar, whose resignation was recently announced. Mr. Affleck entered the service of the Illinois Steel Co. in 1896, and from 1901 to 1903 represented the cement department of the company in the St. Louis territory. When the Universal Portland Cement Co. was incorporated in 1906 to take over the cement business of the Illinois Steel Co., he became general sales agent. From a small plant at South Chicago, producing 30,000 barrels in 1900, the business has grown steadily and the company now has plants at Chicago and Pittsburgh, with a plant under construction at Duluth, the combined capacity being about 13,000,000 barrels per annum.

### ARCHITECTS AND ENGINEERS.

Program for annual meeting of the Minnesota Surveyors and Engineers Society, Ryan Hotel, St. Paul, Feb. 19 and 20: Friday, 10 a. m., reports and papers, indexing and filing notes by F. W. McKillip, city engineer Faribault; re-surveys in cities and villages, B. James Reynolds, city engineer Redwood Falls; keeping costs, O. H. Mann, district engineer highway commission, Moorhead. Friday, p. m.: address by Mayor Powers; Roseau, drainage project, State Drainage Engineer Willard; drain problems, affecting forestry and agriculture, State Forester W. T. Cox; drainage engineering, the public road, by S. L. Kennedy, Princeton, deputy county surveyor; aims of Minnesota league of municipalities, Prof. R. R. Price; segmental vitrified sewer pipe, by Wm. Danford, engineer, St. Paul; discussion on keeping cost data by G. L. Wilson, engineer T. C. R. T., and J. E. Carroll, public works department, St. Paul. Saturday, a. m., Minnesota roads, J. H. Mullen, state highway commissioner; bridges in Minnesota, C. E. Nagel, bridge engineer highway commission; road problem review, Walter Brooks, U. S. engineer, public road; material for concrete roads, Prof. Shoop, U. of M.; stadii surveying, W. B. Saunders, engineer, Minneapolis; explosives, E. W. McCullough, U. of M. Saturday, p. m., arc street lighting, Owatonna, Harvey Dart, city engineer Owatonna; garbage disposal for small cities, E. W. Kibbey, engineer, International Falls; park point sewage pumping plant, Duluth, John Wilson, city engineer; central heating plant small towns, J. F. Druar, engineer, St. Paul; sewage disposal small towns, L. A. Rowatt, engineer, Willmar. Saturday evening, dinner and smoker, talk by Geo. W. Freman, on Engineering and War.

Mr. F. R. McMillan, engineering, '05, instructor in the experimental engineering department of the college of engineering of the university of Minnesota, delivered an address Tuesday, Feb. 2, before the Integral club of Minneapolis. This club is made up of engineers and Mr. McMillan discussed before them the subject of shrinkage and time effects in reinforced concrete.

Gargoyle club, St. Paul, has arranged for a competition for a Campanile design for the proposed mall or approach to the new union station, St. Paul, the jury to be prominent architects of the Twin Cities, material to be brick, stone and marble, clock, height not to exceed 250 feet.

Bert D. Keck, architect, is quoted as follows: "The prospects for a big building year for Crookston and some of the neighboring towns were never better at this time of the year. Of course some of the buildings that are now being considered may not mature but I feel sure that of the many prospects for which I am now preparing estimates will develop during the coming season."

H. E. Rolfe has retired as city engineer of Missoula, Mont. Richard S. Eskridge, engineer, Seattle, has been in Minneapolis on business, following a six weeks' trip in Alaska. He has surveyed a great deal in the interior of that territory. He thinks there is plenty more gold there and more chances for the prospector.

City Engineer John Wilson of Duluth submitted a report for 1914 which shows \$100,000 worth of work accomplished at a cost of \$28,000. Work doubled last year. He urges the purchase of more laboratory apparatus for testing sample rocks and cements used in pavements.

D. E. Carlton, safety engineer for the Virginia (Minn.) district, Oliver Iron Mining Co., read a paper on Accident Prevention on the Mesaba Range, at the meeting of the Engineers' club at Virginia. A. B. Holley prepared the chief paper



for the meeting Feb. 12. He is mechanical engineer for the Inter-State Iron Co.

The Municipal Engineering Co. has been organized to do a general engineering business with offices in the First National Bank, Lincoln, Neb. John Hoge will be manager of the company. He has long been connected with the engineering department of the city of Lincoln. Special attention is to be given municipal engineering work in the northwest.

W. C. Armstrong, chief engineer of the St. Paul Union Station Co., has arrived to begin duties in connection with the new station. He was formerly bridge engineer of the C. & N. W.

Edmund T. Perkins, consulting engineer, Chicago, has been appointed engineer of the Green Bay drainage district, Lee county, Iowa (Fort Madison).

After prolonged study and conference with various interests, the American Institute of Architects issues a draft of a second edition of its standard contract documents and invites constructive criticism from architects and all who are connected with the building trades, whether acting as individuals or organizations. Criticisms should be made in the form of amendments before March 7. Immediately after that date, all criticisms will receive careful consideration and a final draft will be issued April 1st as the new standard form. It is not the intention of the institute to continue the publication of the uniform contract, since all who have studied the subject are agreed that the requirements of modern practice have far outgrown the very restricted range of subjects treated in that document. Additional copies can be had from E. C. Kemper, The Octagon, Washington, D. C.

J. H. Ladehoff, architect, Clinton, Iowa, has taken into partnership with him, Frank Sohn of the same city. The firm name is Ladehoff & Sohn, with offices in the Wolfe building, Clinton.

#### ST. VALENTINE'S DAY AND THE GARGOYLES.

Gargoyles of St. Paul, members of the Gargoyle club of architects and draftsmen, will bring to the meeting of the club next Monday evening, Feb. 15, a remarkable collection of original valentines. The specifications call for one size for all, 10% $\times$ 13%, packed flat and addressed to the victim. The valentines will be hung so that their execution may be observed by those present. The design of the Valentine day

announcement cards includes some bugs wooing under a toadstool, a border of hearts and a potato bug carrying a valentine missive to some victim.

The League of Minnesota Municipalities has placed on its committees the following graduates of the college of engineering, of the university of Minnesota: John Wilson, M. E. '08, city engineer, Duluth, chairman, committee on sanitation; S. A. Siverts, '08, city manager, Morris, committee on special assessments; H. T. Bloomquist, '07, city engineer, Mankato, chairman, committee on water works; R. B. Hauser, C. E. '10, Grant-Smith & Co., St. Paul, Minn.


John Blackstock Hawley, '87, university of Minnesota, consulting engineer of Fort Worth, Texas, has been elected president of the Texas association of the members of the American Society of Civil Engineers. At the recent annual meeting of the society Mr. Hawley was elected director of this national body of engineers.

George Zagel, formerly of the Badger architects, has opened an office at 629 Walnut st., Milwaukee, and desires catalogs, samples, literature, etc.

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Office, 716 Lumber Exchange.

Phones: N. W. 3902. T.-S. Center 2194.

Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

J. R. Addy, 5047 42d av. S., 1½-story plaster veneer dwl.; J. R. Addy, builder; address owner.....	1,200
J. A. Cameron, 710-12 25th av. N., 2-story frame duplex; address owner, 1718 Jefferson av.....	3,400
Edw. Strom, 3848 27th av. S., 1-story frame dwl.; address owner, 3852 27th av. S.....	1,500
Elmer Anderson, 3323 Tyler st. NE., 1½-story frame dwl.; address owner, 826 20th av. NE.....	1,000
A. E. Nelson, owner and builder, 2829-31 26th av. S., 2-story plaster veneer flats (4); address owner, 2812 31st av. S.....	5,600
T. K. Setre, owner and builder, 125 E. 32d st., 1½-story frame dwl.; address owner, 815 E. 3d.....	2,000
Ella and Franklin W. Hynes, 2640 Stevens av., repairs to duplex after fire.....	1,500
Minnesota Debuture Co., 2714 N. 3d st., 1½-story frame dwl.; C. J. Johnson, builder; address owner, 114 S. 4th.....	1,100
E. G. Walton Agency, 2732 N. 3d st., 1½-story frame dwl.; C. J. Johnson, builder; address owner, 114 S. 4th.....	1,200
Minnesota Debuture Co., 3649 N. Lyndale av., 1½-story frame dwl.; C. J. Johnson, builder; address owner, 114 S. 4th.....	1,500
Albert Anderson and Carl A. Erickson, 3800 12th av. S., 1½-story frame dwl.; address owners, 3321 15th av. S. and 3324 23d av. S.....	2,500
Mike Urban, 4241 39th av. S., 1½-story frame dwl.; address owner, 224 Hennepin av.....	1,400
C. A. Field, 4220 11th av. S., 1-story frame dwl.; address owner.....	2,500
J. E. and A. W. Danielson, 4752 Aldrich av. S., 2-story frame dwl.; Danielson Bros., builders; address owner, 4657 Aldrich av. S.....	3,800
August P. Hawkinson, 3928 13th av. S., 1½-story plaster veneer dwl.; Sam Serigstad, builder; address owner, 3517 18th av. S.....	1,975
John Fischer, 1615 16th av. N., 2-story plaster veneer duplex; address owner, 1403 Dupont av. N.....	4,000
John Fischer, 1619 16th av. N., 2-story plaster veneer duplex; address owner, 1403 Dupont av. N.....	4,000
John Fischer, 1623 16th av. N., 2-story plaster veneer duplex; address owner, 1403 Dupont av. N.....	4,000
J. R. Sikes Co., 248-58 11th av. S. and 1018-28 S. 3d st., 3-story brick factory; Elson-Williams Const. Co., builders; address owner, 915-919 Washington av. S.....	30,000
J. E. Moore, 337 E. 48th st., 1-story plaster veneer dwl.; address owner, 337 E. 48th.....	2,500
Chas. N. Larson, 3437 32d av. S., 1½-story frame addition to dwl. and concrete block foundation; address owner, 3437 34th av. S.....	1,200
T. H. Knowles, 2947 46th av. S., 2-story plaster veneer dwl.; Gustav Schwartzrock, builder; address builder, 3824 12th av. S.....	4,200
P. H. Phillips, 4736 S. Aldrich av., 2-story plaster veneer dwl.; P. H. Phillips, builder; address owner.....	4,100
Morris Halvorsen, 4244 Nokomis av., 1-story frame dwl.; address owner, 2013 13th av. S.....	2,000
Henning Larson, 4044 Elliot av., 1-story plaster veneer dwl.; address owner, 3221 14th av. S.....	1,500
Rognald Berentsen, 3425 22d av. S., 1½-story frame dwl.; address owner.....	2,000
G. J. Nichols, 4707 S. Dupont av., 2-story plaster veneer dwl.; D. C. Bennett, builder; address owner, 2740 Aldrich av. S.....	4,800

Keith & Purdy, McKnight building, have furnished plans for three residences to be built by F. W. Gillies, Minneapolis: One 2-story frame, 28x28, exclusive of porches; concrete foundation, hot water heat, brick fireplace, sun and sleeping porches fitted with casement sash, built-in buffet, bookcases, medicine cabinet, etc. First story floors of maple with cypress finish; kitchen in pine with maple floor; entire second floor finished in pine for white enameling with birch floors and doors. Exterior white cement plaster over metal lath; cement wainscoting in bath. A 2-story residence, 30x32, exclusive of porches, concrete foundation, hot water heat, brick entrance stoop, sun and sleeping porches fitted with casement sash, brick fireplace, exterior white cement plaster over metal lath, beam ceiling, plate rail, medicine cabinet, clothes chute, buffet, tile work in bath, quartered red oak floor for the first floor, maple floor in kitchen with pine finish. Second floor finish in pine for white enamel; birch doors mahogany stain. A 2-story English half timber house, 28x34, exclusive of porches; exterior white cement over metal lath, concrete foundation with brick courses at grade, brick entrance stoop, sun and sleeping porches fitted with casement sash, built-in medicine cabinet, clothes chute, beamed

ceiling, buffet, china closets and seats. Plain red oak floor and finish first floor; maple floors on the second floor with pine for white enamel; birch doors, mahogany stain; tile floor and wainscot in bath; shower; kitchen floor of maple, finish pine for white enamel.

Keith & Purdy, McKnight building, have prepared special plans for a 2-story frame residence for C. J. Laurisch, Mankato, Minn., 34x39, frame, exclusive of porches; cement foundation, Mankato stone above grade, brick porch piers and tile floor, glazed in sun porch, furnace room with hot water heat, laundry, and garage in the basement, built-in seats, buffet, bookcases, breakfast room, medicine cabinet, clothes chute, etc., one brick and one tile fireplace, extra plumbing and tile work for bath. Oak floors and finish for the first floor, kitchen in pine; second floor to be finished in birch with pine finish for white enamel; birch doors with mahogany stain; cost about \$7,000. Owner taking figures.

J. E. Nason, architect, Corn Exchange, is preparing plans for a large dairy barn, in Montreal, Que., for the Certified Milk Co., James McAdam; 200x175, 2-story; first story reinforced concrete and second story wood; concrete floors, galvanized corrugated roof, 108 stalls for cattle, 5 box stalls for cattle, 21 horse stalls, 6 box stalls for horses; all modern metal furnishings and equipment, electric light, water supply, grist mill, storage bins, two silos, ice house, refrigerator, modern quarters for men, including complete bath room, engine compressor, generator, large air tank for mechanical milking, butter room. Owners will let work at Montreal.

Kirby T. Snyder, Plymouth building, has sketches and plans in progress for a 6-story fireproof apartment building, in Minneapolis, 120x160, to contain 120 apartments, all outside rooms; outside bath rooms and kitchens; fireproof; press brick, cut stone trim, wood and composition floors, oak and birch finish, electric light, wall beds, gas stoves, ice boxes, freight elevators, garbage burners, steam heat, marble, tile; cost \$150,000. Owner's name withheld.

Kirby T. Snyder, architect, Plymouth building, has plans in progress for high school to be built at Lamberton, Minn.; 3-story, fireproof, reinforced concrete floors, press brick, cut stone exterior, composition and maple floors, oak finish, slate blackboards, electric wiring and fixtures, central heating plant, fan ventilation, air washers, temperature control, clock system, plumbing, gymnasium, stage; cost \$50,000; plans ready for bids March 15, 1915.

C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a modern residence, Minneapolis, for Gilbert Johnson, general offices, Soo R. R.; brick veneer, first story stucco, 2-story, modern, hot water heat, concrete foundation, brick mantle, tile bath, sleeping porch, sun-room, laundry tray, tile roof, hardwood finish, white enamel second floor, French doors and windows; owner lets work, \$6,000.

C. A. Boehme, architect, Kasota block, is drawing plans, completed this week, for a factory building at 22d av. NE and California st., for the Minnesota Fibre Bottle Co.; Mr Markahm interested, care Sand Lime Brick Co., Kasota block; 3-story, brick, 108x64, heating plant, freight elevator, offices, waiting rooms, etc.; excavating may begin soon.

Keith & Purdy, architects, McKnight building, have furnished plans for a large frame bungalow for A. R. Niles, Capac, Mich., 37x41, exclusive of porches; three brick and tile fireplaces, concrete foundation, hot water heat, maple floor; birch finish for the first floor; second floors and finish of yellow pine.

Kirby T. Snyder, architect, Plymouth building, has sketches and plans in progress for a family hotel, 200x160, 8-story, reinforced concrete, press brick and terra cotta; main floor to contain main lobby, dining room, parlors, etc.; upper floors to contain apartments; cost \$175,000; to be built in Minneapolis.

O. K. Westphal, architect, Northwestern Bank building, is completing plans for a 1-story store building, of three stores at 1215 Harmon Place, for John D. Olson, Unique Restaurant, 612 Hennepin, pressed brick, plate glass, galvanized cornice, 65x60, hot air heat, plumbing, wiring; owner takes bids.

Daily News announced Feb. 11 that a 5-story fireproof building, double base, will be built on Garden Theater site, Marquette and 8th st., for an annex to New England Furniture Co.; cost \$200,000, work to begin in April; Bertrand & Chamberlain, architects, Northwestern Bank building.

Bids in on Excelsior high school next Saturday, Feb. 20; C. T. McElroy & C. LeRoy Kinport, architects, Essec building.



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The Daily Reports of The Improvement Bulletin, published every business day, can be used to advantage when copy cannot reach us in time for publication in the weekly Bulletin before bids are to be opened or when daily publications are necessary to meet legal requirements. Rate is the same, —15c per line each insertion.

## Proposal Index

Bids Close		See Imp. Bulletin Dated
Feb. 16.	Water Works Supplies, St. Cloud .....	Feb. 13
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Mar. 2.	Deep Well, New Ulm, Minn. ....	Feb. 13
Mar. 5.	Heat, Pl., Vent., School, Sidney, Neb. ....	Feb. 13
Mar. 3.	Bridges, Nelson, Neb. ....	Feb. 13
Mar. 19.	School, Maxbass, N. D. ....	Feb. 13
Mar., 8.	School, Jamestown, N. D. ....	Feb. 13
Feb. 18.	Govt. Bldg., Lincoln, Neb. ....	Jan. 9
Feb. 25.	Church, Detroit, Minn. ....	Jan. 23
Feb. 27.	Govt. Bldg., Miles City, Mont. ....	Jan. 9
March 1.	Extension street lighting system, Grand Forks .....	Jan. 30

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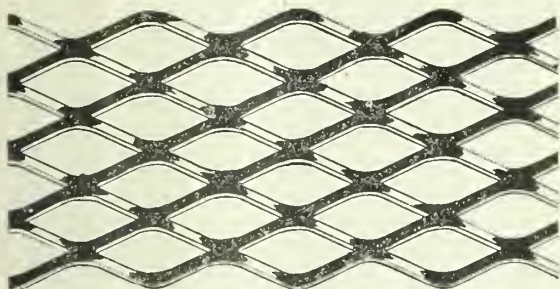
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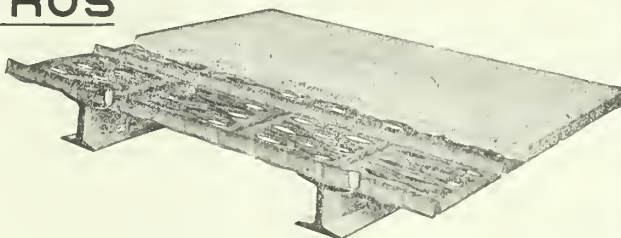
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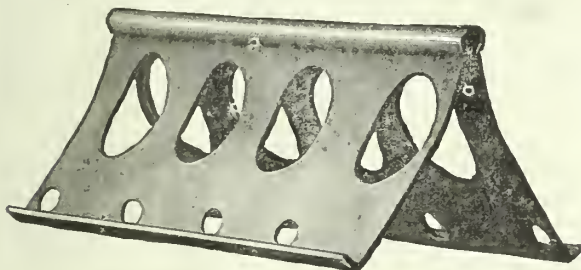
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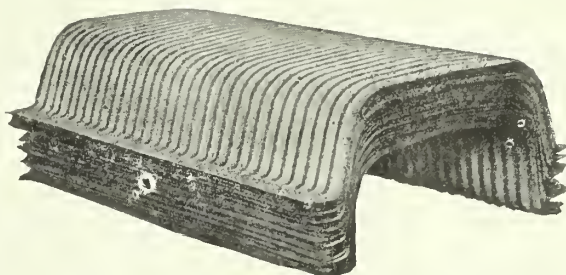
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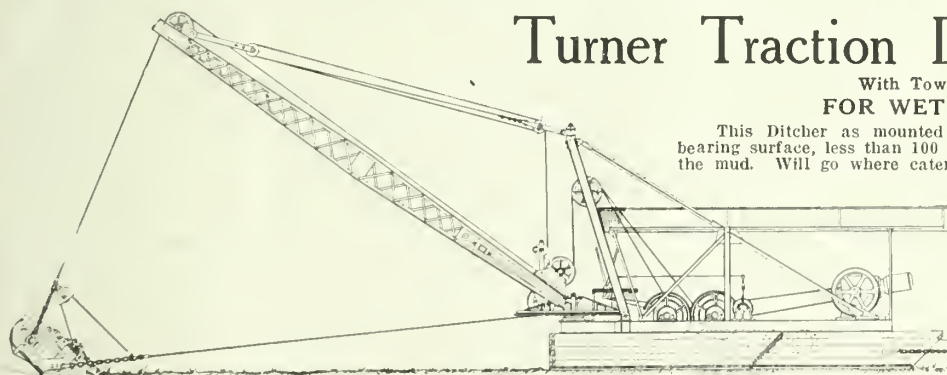
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We are using The Harding Mortar Mixer in mixing the plaster on the Blackhawk Hotel, and we are saving with its use the wages of three laborers, \$6.75 per day. We could save more labor, but we are only mixing for twelve plasterers at this time; one man is doing all the mixing.

ULLRICH & FOSTER,  
Davenport, Iowa.

I feel that I am doing a fellow contractor a favor if this letter will influence him to try one of your machines, for patent plaster. Besides hair mortar and wood fiber, I have mixed cement mortar and top coat just as successfully.

GUARANTEE CONSTRUCTION COMPANY,  
Per Eggelstine,  
Cedar Rapids, Iowa.

WRITE FOR SPECIAL PRICE ON FIRST MACHINE IN EACH TOWN.

MORTAR MIXER CORPORATION, Iowa City, Iowa



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT  
ASSETS \$3,514,125.50

Both Phones 622

The Hood & Matschke Co.  
GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.  
ASSETS \$4,823,371.79

MINNEAPOLIS, MINNESOTA

### Brick of Quality.

#### Dickinson Brick

ALL KINDS

Call for Samples and Prices

DICKINSON Fire and BRICK CO.  
Dickinson, N. D.

#### RUFUS P. MORTON

Manufacturer of

#### CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
Correspondence Solicited.



#### J. C. Kernchen ALEX

Inventor

Original Siphonage Ventilator  
Storm-proof—Economical—No  
Movable parts.

"The Power Fan's Only Rival"

Manufactured Exclusively by  
AREX CO., Chicago  
WM. H. HALE & CO.  
McKnight Bldg. Minneapolis, Minn.

### LABORERS

WE FURNISH LABORERS, all classes and nationalities, any number, also mechanics, tradesmen, etc. No charge for service and you get the best kind of men. Your patronage solicited. Phone, write or wire **DIAMOND LABOR SUPPLY CO.**, 32 S. Canal St., Chicago.; Bell phone Franklin 4529. We are also boarding camp contractors—complete outfits furnished.

#### SCHOOL.

Max Bass, N. D.

The undersigned hereby gives notice that sealed proposals for the erection of a two-room and basement school building including all labor and material. A separate proposal for the Steam Heating

Plant for same and a separate proposal for the purchase of the old School Building, 20x32 feet, 12-foot side studs, will be received by E. E. Cram, clerk of Michigan School District No. 25, until the hour of 2:00 p. m., on the 19th day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by Ed. White of Mohall, N. D., which may be seen at his office, at the office of E. E. Cram, Clerk, Maxbass, N. D., The "Monitor" office, Maxbass, N. D., or the Builders' and Traders' Exchange, Minneapolis.

A certified check for 5 per cent of the bid payable to the order of C. R. Tummonds, Chairman, Maxbass, N. D., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in double the amount of the contract price for the faithful performance of the contract.

The right is reserved to reject any or all bids.

(Signed.) E. E. CRAM, Clerk.  
Place of letting, Clerk's Office, N. W. Corner of Section 11, T. 161, R. 82.  
Date, March 19, 1915.

#### NOTICE TO CONTRACTORS.

School Building, Jamestown, No. Dak.

Sealed proposals will be received by John G. Bensch, Secretary of the Board of Education, of Independent School District, of the city of Jamestown, North Dakota, up to the hour of two o'clock, p. m., on the 8th day of March, 1915, for the complete construction of a two-story and basement addition to and together with the remodeling of the present school building in the city of Jamestown, known as the North Side School Building (including complete mechanical equipment for the entire building), all to be in strict accordance with the plans and specifications for the work as prepared by Gilbert R. Horton, Architect. Plans on file at the Minneapolis Builders' Exchange and at the office of the Architect, in the Citizens' National Bank Building, Jamestown, North Dakota.

All proposals must be made out in strict accordance with the outline form given in the specifications and each pro-

posal must be accompanied by a certified check for 4 per cent of the amount of the bid; the checks to be made payable to Alfred Steel, President of the Board, and said checks to be forfeited to the Board in the event of failure of the accepted bidders to enter into satisfactory contract or to furnish satisfactory bond as required by law. The accepted bidders will be required to furnish bonds as required by the laws of the State of North Dakota and the same must be satisfactory to said Board of Education.

The Board reserves the right to reject any or all bids.

By order of the Board of Education of Independent School District, of the City of Jamestown, N. D.

By JOHN G. BENSCHE, Secretary,  
of the Board of Education.

#### CHURCH.

Easton, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of a church to be erected at Easton, Minn., including all labor and material, except heating and plumbing and gas fitting, will be received by the building committee at Easton, Minn., until the hour of 2 p. m., on the twenty-first day of February, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by W. F. Keefe, Architect, of 304-305 Am. Natl. Bank Bldg., St. Paul, Minn., which may be seen at the office of above named Architect, on and after February 2, 1915, and may also be seen on application to Rev. A. Hennekes at Easton, Minn.

A certified check for 2% of bid payable to the order of Rev. A. Hennekes, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount of contract, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) W. F. KEEFE,

304 Am. Bank,  
St. Paul.

Place, Residence of Rev. A. Hennekes,  
Easton, Minn.

(Continued on page 16.)

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY



Kirby T. Snyder has been commissioned to prepare plans for school at Williams, Minn., 2-story, basement, 4 rooms, brick and hollow tile, maple floors, birch finish, slate blackboards, steam heat, plumbing, fan ventilation; bonds to be voted. A. W. Atwater, clerk, Williams, Minn.

Kirby T. Snyder, 751 Plymouth building, has plans in progress for a 2-story residence for F. S. Mayer, Young America, Minn.; concrete foundation, hot water heat, gas, bath rooms, maple floors, oak interior finish, frame clapboards, shingle roof, fireplace; \$3,500.

Long, Lamoreaux & Long, architects, 830 Hennepin, will have plans ready next week for an addition of one story to the Parker garage, 10th and Mary Place, brick, fireproof, concrete floor, plate glass, \$20,000; architect will take figures, 124x166, freight elevator.

Kirby T. Snyder, architect, Plymouth building, has plans in progress for a residence for Dr. C. C. Prosser, Aitkin, Minn.; 26x30, 2-story and basement, frame, stucco, shingle roof, fireplace, hot water heat, plumbing, oak and maple floors, oak finish; \$4,000.

A business building will be built at 12th and Marquette by W. L. Harris Realty Co. for the Nevins Co., laundry, Hennepin and 6th st., 3-story, fireproof, \$75,000, 165x110; plans by Bertrand & Chamberlain, architects, Northwestern Bank building.

Kirby T. Snyder, architect, has plans in progress for a 42-family apartment at 15th and Spruce place; 4-story, fireproof, press brick, cut stone, steam heat, plumbing, phones, wiring, gas, maple floors, birch and oak finish; \$50,000.

E. G. Brandenburg Construction Co., 735 Temple Court, has been awarded the contract, by Peter Nelson & Co., 315 Temple Court, for clearing, culvert timber, ties, posts and poles of the Wisconsin & Northern Railroad, Crandon, Wis.

The S. Swenson Artesian Well Co., 256-258 Plymouth av. N., Minneapolis, Minn., has been awarded the contract to drill a 12-inch well to be about 1,000 feet deep, at the artificial ice plant in St. Paul, Minn.

A four-flat is being built by A. E. Nelson, 5420 33d av. S., at 2829 26th av S.; 38x40, 2-story, plaster veneer, hardwood trim, plumbing, gas, concrete block foundation; private plans; owner builds; \$5,600.

S. M. Klarquist & Son will make alterations and repairs at the Hennepin Brewery Co.'s plant, including the erection of a government cellar, to cost \$6,000. C. A. Boehme, architect, Kasota building.

Kirby T. Snyder, architect, is preparing plans for a summer pavilion to be erected at Watertown, Minn.; 50x90, frame, 1-story, maple floors, shingle roof, stage, etc.; \$4,000; plans in progress.

Contract has been awarded to the Minnesota & Ontario Power Co., 602 Andrus building, for the Minnesota, Dakota & Western Railway extension from Craig to Littlefork, Minn., 45 miles.

Kirby T. Snyder has completed office drawings and details for office cabinets, fixtures, etc., for the T. K. Kelly Sales Co., 26th and Nicollet; Madsen Bros., contractors; \$1,500.

O. W. Gremmert, Walnut Grove, Minn., wants bids till Feb. 11 on painting three coats in new 8-room house with closets, porch; labor only; contractors furnish material.

Kirby T. Snyder, architect, is preparing plans for a pavilion to be erected by N. W. Iowa M. E. conference at Spirit Lake, Iowa; frame, 1-story; plans in progress; \$10,000.

Johnson Construction Co., Plymouth building, were awarded contract for the Gale building, 1115 Hennepin; about \$20,000; Ernest Kennedy, architect, Essex building.

Bids received till 11 a. m., March 1, by county board, to build bridge 13; check for 5 per cent; Al. P. Erickson, county auditor.

Bids received by county board till 11 a. m., Feb. 15, for steel furniture; check for 5 per cent; Al. P. Erickson, county auditor.

E. P. Farley, 1113 Hennepin av., will enlarge his plant in the spring.

56x112, 3-story, brick, modern, adjoining present building.

Eleven building permits were issued to Charles W. Martin for dwellings north part of city, 45 permits in month of January, valued at \$165,075; compared with 79 permits in 1914, valued at \$180,440.

Bids for the apartment house for 15 families, at 39th and Farnam, for O. D. Kiplinger, are being taken until about Feb. 15; spring work; 3-story and basement, 80x120; cost \$85,000.

W. E. Stockham, architect, is to prepare plans for a 3-story and baserent, fireproof bachelors' hotel, at northwest corner 16th and Davenport; owner's name withheld.

The Firestone Tire & Rubber Co. will build a 3-story structure, 37½ feet wide by 140 feet deep, between 25th and 26th avs.; B. J. Scannell, manager.

Permit issued for Creighton memorial girls' home, 40x130, 3-story, at 2102-10 Davenport st.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

### Building Permits.

Christian Hanson Realty Co., 1-story stone foundation, Jackson near 10th; Paul Steenberg Sons Co., builder....	3,000
Max Herman, alterations and repairs to 3-story brick store, 64 7th st.; John M. Carlson, builder.....	1,000
Joseph Freedman, 25 W. 5th st., 3-story brick apartment, Dayton near Western; Joseph Freedman, builder.....	75,000
Wm. Harvey, 736 York st., builder, 1-story frame dwl., Edmund near Dunlap.....	2,500
J. J. Freedman, alterations and repairs to 3-story brick store, 87 and 89 7th st.; W. M. Crawford & Co., builders.	1,200
Smith Park Realty Co., 5-story electric freight elevator, 220 to 226 5th st.; Franklin Machine Works, builders....	1,900
Sperry Realty Co., 3-story brick commission warehouse, 11th near Jackson; C. H. Froberg, builder.....	125,000
Olav Neilson, 1606 W. Minnehaha, 1½-story frame dwl., Hewitt near Aldine; W. O. O. Peterson, builder.....	2,500
Minnesota Club, 3-story electric passenger elevator, Washington near 3d; Lee & Hoff Manufacturing Co., builders.	4,000
E. J. Stople, 665 Jessamine, builder, 2-story frame dwl., Maryland near Payne.....	4,800
Will N. Smith, 2-story frame dwl., Marshall near Oxford; Thos. H. Ivey, builder.....	4,000
Perry, Fry & Co., 415 Commerce, builder, 1½-story frame dwl., Ashland near Dewey.....	3,000
Gust A. Holt, 200 W. Robie, 1½-story frame dwl., King near Charlton; Geo. Hougén, builder.....	1,800
H. W. McQuade & Co., 1-story frame and concrete transfer station, Snelling near Ashland; Geo. J. Grant, builder....	3,000

B. J. Taylor, architect, 367 N. Prior, is preparing plans for a large modern residence at Northwood, N. D., for H. B. Land, president First National Bank, Northwood, frame, colonial design, concrete foundation, cobble stone base, two stories and attic, 41x37, beam ceilings, sun room, conservatory, hot water heat, tile vestibule and tile baths, large screened porch, built-in ice box, china closet, ironing board, book cases, side board, majestic coal chute, white enamel finish birch mahogany doors, coved ceiling, ivory finish, stairs in hallway, colonial brick columned fire place, Circassian walnut white enamel and mahogany finish second floor, finished balcony sleeping porch, patent plaster, shingle roof, electric light, vacuum cleaner, laundry trays, 240-barrel system pressure tanks, well, septic tanks, garage, landscaping, toy house, summer house; plans ready about March 15; owner will let all work; about \$10,000.

C. H. Johnston, architect, 715 Capital Bank building, is drawing plans for extensive improvements at St. Luke's hospital, Sherman and Smith sts.; addition to the ward buildings, five stories, brick, stone, reinforced concrete, passenger elevator, fireproofing, marble and tile work, all modern improvements, specifications similar to present structure; cost about \$80,000; also plans for a chapel at St. Luke's hospital of special design, different from rest of the buildings, brick, stone, fireproof, modern, heat from central plant; cost about \$30,000, figures will be received at office of architect.

H. A. Sullwold, architect, Studio building, will have plans out March 15, for a modern residence at 26th and Thomas, S. Minneapolis, for Dr. F. J. Pratt, brick veneer, two stories and attic, slate or tile roof, hot water heat, irregular shape, ten rooms, enclosed, glazed porch, detaining walls, heated sun porch, sleeping porch, three tile baths, two brick fire places, French windows and doors, disappearing sash, linoleum, garage; architect will take bids.

C. H. Johnston, architect, 715 Capital Bank building, is preparing plans for extensive improvements in the residence of Geo. H. Prince, Merchants National bank, Summit av., brick veneering, exterior, plans out for figures March 1; also plans for remodeling the residence of F. J. Otis on Lincoln av., interior work; will have plans for completion of the Oliver Crosby residence, interior work, ready about March 1.

## OMAHA, NEB.

Building Permits—George Haas, 1622 Military av., frame dwelling \$3,200; Magic City Realty Co., 1508 Howard, alterations, \$1,500; Cassel Realty Co., 27th and Arbor, alterations, \$4,000.

Haskins Bros. & Co., manufacturers, 2d and Hickory sts., will erect addition to their plant; 3-story, 42x116, brick, modern.

Farmers Co-operative Creamery Co. will erect a building,



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

## PROPOSALS

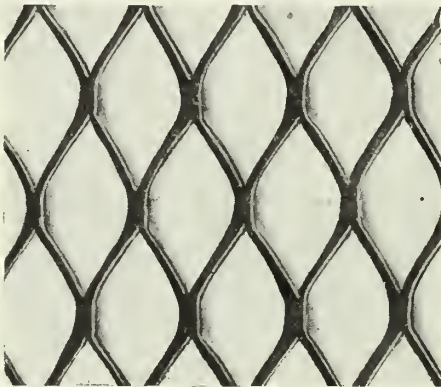
### BRIDGES. Nelson, Nebr.

Bids will be received at Nelson, Nebr., on or before March 3rd, 1915, for all bridges to be built in Nuckolls County, Nebr., for year 1915, also on state aid bridge, about one mile west of Superior. For information, write County Clerk E. E. Hedgcock, Nelson, Nebr.

### MATERIAL FOR CHURCH. Woonsocket, S. D.

The undersigned hereby gives notice that proposals will be received for 110 to 115 thousand best five red cedar shingles. Bids are also desired on the plastering and on the wooden and metal lath for the Church at Woonsocket, South Dakota.

Address L. G. TURGEON,  
Woonsocket, S. D.  
(Continued on page 18.)



## LUXFER EXPANDED METAL

has become the Standard Metal Lath

—and here are just a few reasons WHY.

It is made from high class open hearth steel—it is the most rigid and stiff lath on the market, providing thereby a smooth and even surface for plastering.

It is manufactured in sheets 24 inches wide by 97 inches long, but is only charged for on the basis of 24 by 96 inches—allowing the remainder for lapping.

It is most economical in use because its solid construction makes plastering easy, and saves considerable labor and time, and it is especially noted for its uniformity of quality and stiffness.

In our close association with Contractors for many years, we naturally know their needs—and have therefore included the best material and features in the LUXFER Expanded Metal Lath. Manufactured and Guaranteed by the

### AMERICAN LUXFER PRISM COMPANY

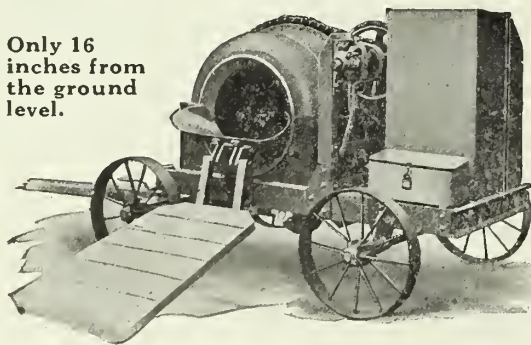
New York—507 W. Broadway  
Philadelphia—411 Walnut St.  
St. Paul—365 University Ave.  
Duluth—106 W. Michigan St.

Dallas—Builders' Exchange  
Boston—49 Federal Street  
Milwaukee—Stroh Bldg.  
Chicago—Heyworth Bldg.

New Orleans—904 Hennen Bldg.  
San Francisco—445-47 Turk St.  
Los Angeles—928 S. Main St.  
Rochester—38 Exchange St.

## The "Wisconsin"

Only 16  
inches from  
the ground  
level.



### Low Charging Mixer

Has highest efficiency. Is lowest in price. Most compact and handy. Made for long service. Built on honor to the last bolt. Write for booklet, showing our complete line of mixers,

**Milwaukee Concrete Mixer Co.**

MILWAUKEE, WIS.

**FRANK J. ROSE, Agent**

208 Corn Exchange Bldg., Minneapolis, Minn.

## Measure Value by Result

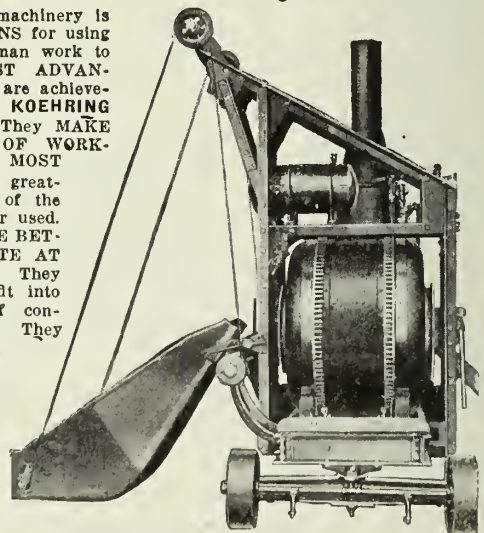
Any kind of machinery is simply a MEANS for using power and human work to the GREATEST ADVANTAGE. These are achievements of the KOEHRING MIXERS. They MAKE THE WORK OF WORKMEN COUNT MOST

—they get the greatest value out of the time and power used. They PRODUCE BETTER CONCRETE AT LESS COST. They put more profit into every yard of concrete mixed. They take the guesswork away from contracts. They make each dollar invested in them COST LESS TO MAINTAIN, and therefore make each dollar EARN THE HIGHEST RATE OF INTEREST.

To do a thing well is desirable; to do it better is more desirable—and to do it BEST is MOST DESIRABLE.

MIXING THE BEST, and STANDING UP UNDER THE WORK are two specialties of the Koehring.

And just because it is the Mixer that has KEPT PACE WITH THE GREATEST MECHANICAL PROGRESS, the Koehring is the kind that is sought and bought. It does its talking when it is in USE—and what is a safer standard for judging anything than USE?



## Koehring Machine Co.

Milwaukee,

Wisconsin

H. B. JONES, District Manager  
350 Security Bank Building :: :: Minneapolis, Minn.



# NOTICE TO CONTRACTORS. ADDITION TO WATERWORKS SYS- TEM.

South Stillwater, Minn.

Sealed proposals will be received by the Village of South Stillwater, Minnesota, until 6 o'clock p. m. March 2nd, 1915, for the construction of certain additions and improvements to the village water supply as follows:

Concrete Reservoir.

Brick and Concrete Pump House.

Pumping Machinery with Connections. Distribution Pipe Line System, covering approximately—

750 ft. 12-inch pipe.

4200 ft. 8-inch pipe.

200 ft. 4-inch pipe.

Hydrants, specials, etc.

All work to be done strictly in accordance with plans and specifications on file in the Village Recorder's office, and also at the Office of the Improvement Bulletin, Minneapolis, Minn., bids being considered for either the entire work or for each portion separately.

Copies of plans and specifications can be obtained by remitting \$5.00 to Oscar Hunhke, Village Recorder, South Stillwater, Minnesota.

Bids for the complete work to be accompanied by certified checks of \$600.00 (Six hundred dollars); each separate portion being accompanied by certified checks of \$150.00 (One hundred and fifty dollars).

Bond for full contract price to be furnished by contractor to whom work is awarded.

The Village Council reserves the right to reject any or all bids.

By order of Village Council.

Dated at South Stillwater, Minnesota, February 2, 1915.

Signed: OSCAR HUNHKE,  
Village Recorder.

# BIDS FOR REBUILDING BRIDGE AND APPROACH.

Grand Forks, N. Dak.

The undersigned hereby gives notice that sealed proposals for the rebuilding of a portion of the bridge over the Red River of the North on DeMers Avenue, in Grand Forks City, including all labor and material, will be received by W. H. Alexander, City Auditor, until and not after

the hour of 4 o'clock P. M., on the 23rd day of February, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by M. B. Stone, Minneapolis, and J. J. Smith, City Engineer, of Grand Forks City, N. D., which may be seen at the offices of the above named engineer on and after February 10th, 1915.

A certified check for \$1,000.00, payable to the order of the Mayor of the City of Grand Forks, N. D., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full amount of the bid for the faithful performance of the contract. The City Council reserves the right to reject any or all bids.

(Signed) W. H. ALEXANDER,  
City Auditor, Grand Forks, N. D.  
Place, Grand Forks, North Dakota.  
Date, February 5th, 1915.

# CHURCH.

Fairfax, Minn.

Sealed proposals will be received by Rev. I. F. Albrecht, secretary of the building committee of the Evangelical Lutheran church, Fairfax, Minn., until 12 m., Feb. 27th, 1915, for the erection and completion of a church building at Fairfax in accordance with the plans and specifications prepared by A. F. Gauger, architect, St. Paul, Minn.

All bids to be sealed and marked "Proposal for Church," and addressed to I. F. Albrecht, Fairfax, Minn. Bids to be submitted only on form of bid supplied by the architect, no other form will be considered. Bids to be accompanied by a certified check of one per cent (1%) of the amount of the bid, payable to A. G. Briesse, vice president of the building committee, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at the Builders Exchange of St. Paul, at the office of A. G. Briesse, First National bank, Fairfax, Minn., and at the office of A. F. Gauger, architect, St. Paul, Minn.

Successful bidders must furnish the building committee with a surety company bond in seventy-five per cent

(75%) of the amount of the contract.

The right is reserved by the building committee to reject any or all bids.

By I. F. ALBRECHT,  
Secretary, Building Committee.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 9, 1915.—Sealed proposals will be opened in this office at 3 p. m., March 23, 1915, for the repairing, remodeling, etc., of the United States post office and courthouse at Des Moines, Iowa. Drawings and specifications may be obtained from the custodian at Des Moines, Iowa, or at this office in the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

# NOTICE TO BRIDGE CONTRACTORS. Winona, Minn.

Notice is hereby given that sealed proposals will be received by the Board of Park Commissioners of the City of Winona, Minnesota, until the first day of March, 1915, at 8 o'clock P. M., for the construction of a Reinforced Concrete Park Bridge on the Parkway across Lake Winona in said city, in accordance with the plans and specifications therefor, prepared by L. P. Wolff, Consulting Engineer, now on file in the office of the Secretary of said Board.

The bridge will have a clear span of 30 feet and a total length of 70 feet, a 24-ft. roadway paved with brick and two 6-ft. concrete walks.

Bids must be made on blank proposals furnished for that purpose and each bid must be accompanied by a certified check for the sum of \$750.00., made payable unconditionally to the order of the Secretary of the Board of Park Commissioners of said city as a guarantee of good faith.

Plans and specifications may be seen and blank proposals may be obtained at the offices of the Secretary of said Board and of L. P. Wolff, Consulting Engineer, 1000 Germania Life Bldg., St. Paul, Minn.

Extra copies of the plans and specifications may be obtained from the Engineer at \$2.50 per set.

The right is reserved to reject any or all bids.

F. J. BELL, Secretary,  
Board of Park Commissioners.

(Continued on page 19)

Buechner & Orth, architects, Shubert building, will have the plans out next week for the large addition to the Emporium department store, to occupy corner of 7th and Robert; five stories, fireproof, details same as present building, general contract will be let first, mechanical equipment later; mechanical equipment plans for Mason City, Iowa, hospital will be out next week.

W. F. Keefe, architect, American National Bank building, has the plans in progress for the first church to be built by the new parish of St. Columbus, St. Paul; will cost about \$7,000; to be replaced in the future by a large edifice and parish house, etc., to be built on site which occupies a block.

C. H. Johnston, architect, 715 Capital Bank building, has revised plans for the biology building, State University, and new figures are being taken by State Board of Control, until Feb. 17; changes include exterior, stone and brick, and floor finishes.

W. F. Keefe, architect, American National Bank building, is preparing plans for a church, near Redwood Falls, R. F. D. Redwood Falls, Rev. J. J. Tomek, pastor Redwood Falls mission church, frame, furnace heat, concrete foundation; \$8,000.

Contract awarded to Cameron & Co., Ryan Annex, for general work, county almshouse, at \$78,000; electric to Gorman Electric Co.; plumbing to L. H. Peter; heating, Rozycki & Collins. Buechner & Orth, architects, Shubert building.

H. McQuaid, the grocer, has taken out permit for transfer station, on Snelling, between Ashland and Laurel, frame, concrete foundation, general contract to Geo. J. Grant Construction Co., New York Life building.

Permit issued this week for the \$8,000 flat building, brick and tile, hot water heat, modern, to be built by H. H. Plache, 915 Andrus building, Minneapolis, on Oxford, between Marshall and Iglehart; 38x40, 2-story.

County board of control will take bids till Feb. 25, 2 p. m., for deep well at county hospital; plans by C. L. Pillsbury, engineer, 716 Capital Bank building. O. J. Tong, secretary of board, City Hall.

Thomas Ivey, contractor, 1406 Selby, is building a modern dwelling for Will N. Smith, on Oxford, concrete foundation, tile bath, hot water heat; \$3,000.

Theresa M. Miller is building a 3-story brick store and flat building, Summit between 6th and Cathedral; \$25,000; 60x80.

# MADISON, WIS.

Claude & Starck, architects, Madison, have plans ready for bids on library at Ft. Atkinson, Wis.; pressed brick, stone, iron, 35x60, \$14,000; Rev. H. K. Hawley, Ft. Atkinson, pastor. Also plans for library at Shawano, Wis., 34x60, pressed brick and stone, \$10,000. E. J. Scott, Shawano.

Gordon & Balch, architects, Commercial National Bank building, are completing plans and ready for bids about Feb. 25 for brick and stone store and office building, five stories and eight offices, composition roof, iron, 62x91, for Jay & Chapman, Pioneer block.

(Continued on page 23)



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

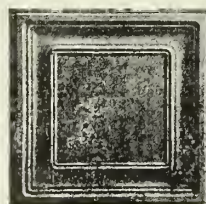
## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE HAAKINSON & BEATY CO., SIOUX CITY, IOWA ESTIMATES GLADLY FURNISHED PROMPT SHIPMENTS

### Greenhouses, Conservatories and Modern Glass Structures

**WM. H. LUTTON CO.**  
710 Sykes Block, Minneapolis, Minn.



Northwestern Representative  
**FRANK H. NUTTER** Landscape Architect & Engineer  
710 Sykes Block, Minneapolis  
Designs and plans for public and private grounds, parks, cemeteries



Extra Long Bead.  
Note the Deep Cup in the  
Nailing Button and the



Quickly Nailed  
An Apparently  
Seamless Job

Patent Pending

### IMPORTANT EXTRA ETUFEAR

*BERGER'S*  
**Classik**  
STEEL CEILINGS

Proven beyond any possible doubt

### PERFECTLY FIRE RESISTING

In official fire test at Columbia University fire testing stations, Greenpoint, N. Y., they remained intact during entire duration of test (1 hour and 10 minutes), in a fierce and raging fire of 1,800 degrees of heat. Wood lath and plaster fell 6 minutes after starting of fire.

Does not this prove Berger's Classik Steel Ceilings Fire Retardant and Perfect in Construction?

They also are ornamental, sanitary and easy to erect.

Write for catalog and prices.

**The Berger Mfg. Co.**

300-312 Tenth Ave. So.

Minneapolis, Minn.

## CULVERTS AND Road Grading Machines

We manufacture and sell direct to you, Galion Imperial Rock Crushers, Elevators, Screens, Bins, Gravel Screening Plants, Eclipse Portable Stone Unloaders, Steam and Gas Road Rollers and Tractors, Road Drags, Wheel, Drag, and Fresno Scrapers, Galion Rooter Plows, Dump Wagons, Traction Hauling Cars, Street Sprinklers and Flushing Machines.

**Galion Iron Works & Mfg. Co.**

GALION, OHIO

Minneapolis, Minn.

### Do You Label Your Work?

There is nothing more dignified or elegant than our large Weatherproof Fiber Cardboard Signs. More serviceable than iron, wood or cloth. Packed in a box—printed—ready for displaying.

**2 x 3 ft. IGNS --- 12c EACH.**

\$12.00 per 100. Check with the order. We pay the freight. Other sizes, 1½x3 ft. to 3x4 ft., proportionate prices. Send for an Illustrated Folder.

**INDEPENDENT PRINTING CO'S. of U. S.**

General Sales Offices - McLachlen Bank Bldg.,  
Washington, D. C.



A man's mail  
will reach him  
where no mortal  
can.



### Mailing Lists <sup>99%</sup> Guaranteed

covering all classes of business, professions, trades or individuals. Send for our complete catalogue showing national count on 7,000 classification. Also special prices on Fac Simile letters and addressing.

**Ross-Gould** 559 N. 9th St. **St. Louis**



**SALES MANAGERS!**

Latest 1915 mailing lists of all kinds are now ready for you. These lists, secured in the course of our business, are complete and reliable and will put you in direct personal touch with hundreds of good prospects.

Tell us what states you want to cover and whom you want to reach. We will quote you lowest cash price on lists selected especially for you.

Western Press Clipping  
WESTERN PRESS CLIPPING EX-  
CHANGE,

716 Lumber Exchange,  
Minneapolis, Minn.

**Cash for Warrants**

Will buy at a discount township or county warrants, unpaid for want of funds, if same have been registered with treasurer. Address Box 98, Improvement Bulletin, Minneapolis, Minn.

**MIXER AGENTS WANTED.**

I know of two or three first class concrete mixer manufacturers who want good agents here in the Northwest. If you desire to get in touch with them and have had experience in selling the building trade, better see me.

W. F. CHAPMAN,  
716 Lumber Exchange, Minneapolis.

**FOR SALE AT A BARGAIN.**

One 300-H. P. Twin City Cross Compound Corliss Girder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.

**SPECIAL**

**HOTEL ACCOMMODATION FOR SALE.**

\$150.00 worth of room accommodation at the best hotel in Minneapolis for sale at reasonable discount. Can be used at any time. Will sell all or any part. Save money on your traveling expenses by writing us.

THE IMPROVEMENT BULLETIN  
Minneapolis Minn.

**PROPOSAL FOR WATER WORKS SUPPLIES AND IRON PIPE.**

St. Cloud, Minn.

Notice is hereby given that sealed proposals will be received at the office of the undersigned on the 16th day of February, A. D. 1915, to 3 o'clock P. M., for the following supplies for the Water Works Department—

**MATERIAL FOR HOUSE CONNECTIONS.**

Lead Flanged Goose Necks.  
100 5/8-inch for Muller Machine.  
6 1-inch for Muller Machine.  
6 3/4-inch for Muller Machine.  
100 5/8-inch Curb Cocks for 3/4-inch pipe.  
6 1-inch Curb Cocks.  
6 3/4-inch Curb Cocks (Brass).  
100 Peerless Curb Boxes, 6 to 8 ft. long.  
2500 Ft. or more 3/4-inch Galvanized Pipes.

250 Ft. or more 3/4-inch Galvanized Couplings or more.

200 Ft. or more 1-inch Galvanized Pipe.  
100 1-inch Couplings.

120 Lengths of 12-inch Cast Iron Pipe.  
Standard Class "C" of the American Water Works Association.

2 12x12 Cross.  
3 12x8x12x8 Cross.  
3 12x6 Cross.  
2 12x12x6 Tees.  
3 12x12x4 Tees.  
3 12x8 Reducers.  
3 12x6 Reducers.  
3 12x4 Reducers.  
6 12-inch Sleeves.  
6 10-inch Sleeves.  
6 8-inch Sleeves.  
6 6-inch Sleeves.  
6 4-inch Sleeves.  
4 12-inch Hub Ends Gates, open by turning to right.

5 8-inch Hub Ends.  
4 6-inch Hub and Spigot Ends.  
3 Ton Pig Lead.  
No. 500 Jute.

The right to reject any or all bids is hereby reserved.

A certified check in amount of 10 per cent of the proposal must accompany each bid.

Witness my hand and seal of the City of St. Cloud, Minn., this 2nd day of February, A. D. 1915.

GEO. G. MAGNUSON,  
City Clerk of St. Cloud.

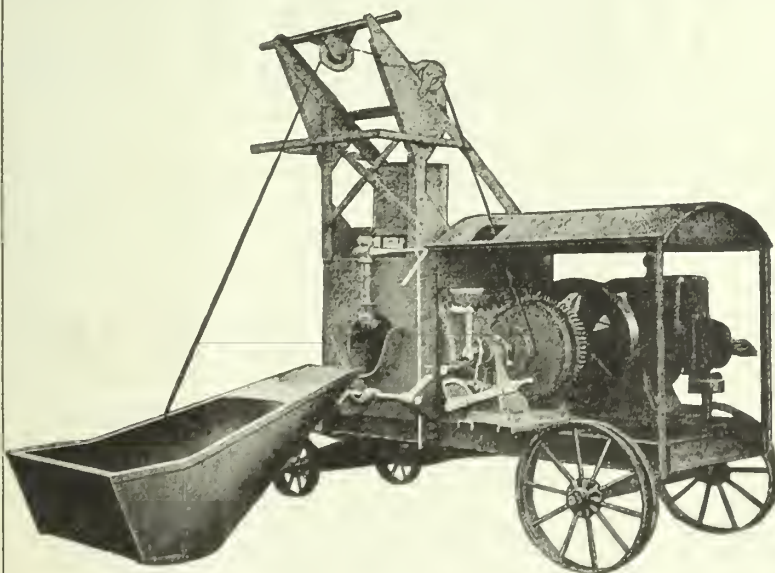
(Seal.)

**ROLLER WANTED.**

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTTLE, Sioux City, Iowa.

(Continued on page 21)

# Strength - Speed - Power - Moderate Price - Lowest Cost of Operation



What more could you get—what less could you get along without? Your profits depend on speed, output and cost of operation. Figure it out yourself. One mixer costs you practically nothing for repairs—no engine trouble, and uses less operators. The other uses more men, continually needs repairs, has unreliable power, stops in the middle of the job and ties up your work. Your good judgment would naturally select the former.

## New 1915 Model Lansing Mixers

Are top notchers in the mixer line. All the new and latest labor saving devices, crucible steel gears, machined bearings, finest engines and most reliable for mixers ever put onto a machine; low charging, power loaders; all sizes from 5 ft. at \$175.00 complete to the big size steam outfits. By all means, look up this line before you buy. It's worth your while.

**LANSING COMPANY** 330 No. 1st St., Minneapolis, Minn.  
Factory: Lansing, Michigan

Warehouses: New York Philadelphia Chicago Boston San Francisco Kansas City



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co.

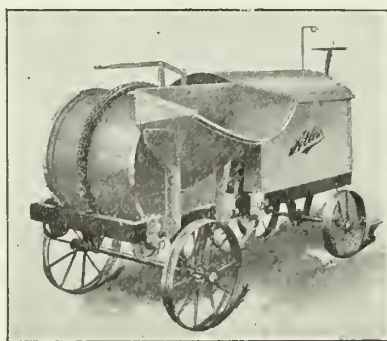
YOUNGSTOWN, OHIO

MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.  
"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.  
"Youngstown" Brand Expanded Metal  
In Gauges Nos. 7 to 20 Inclusive.  
SEND FOR CATALOGUE

**Landers-Morrison-Christenson Co.**  
Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.

## The *Atlas* Mixer

Furnished  
with  
Batch  
Hopper  
or  
Power  
loader.



5  
and  
11 foot  
Capacity

### It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the **ATLAS MIXER** proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the **ATLAS** to more than meet every requirement demanded by the most exacting contractor.

Send for the **ATLAS** Mixer book.

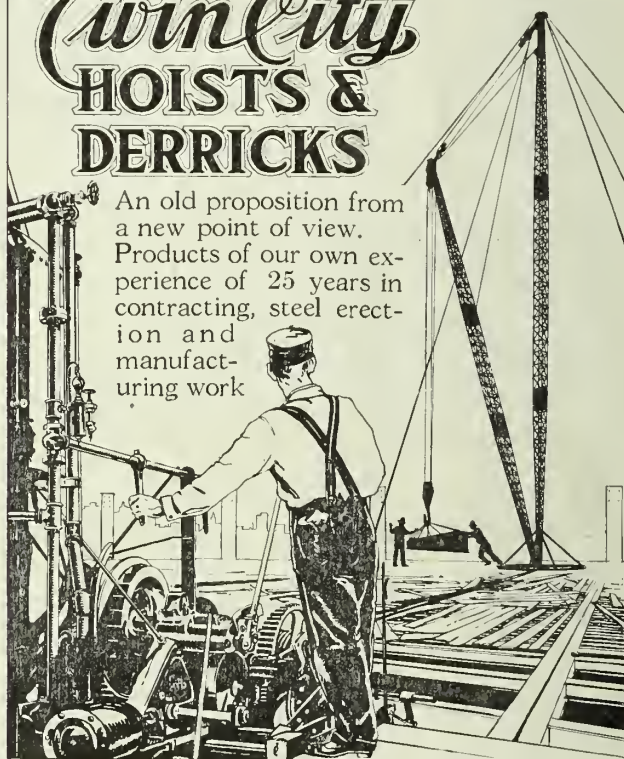
**Atlas Engineering Company**

MILWAUKEE, WIS.

1137-1138 Plymouth Bldg., Minneapolis, Minn.  
Telephones: Nicollet 5293, Center 2432.

## Twin City HOISTS & DERRICKS

An old proposition from a new point of view. Products of our own experience of 25 years in contracting, steel erection and manufacturing work



Steam, Electric and Gasoline. Our catalog may be worth money to you.

**Minneapolis Steel & Machinery Co.**  
2853 Minnehaha Ave. Minneapolis, Minn.

## STRUCTURAL STEEL AND ORNAMENTAL IRON WORK

Trusses, Girders, Columns,  
Stairways, Fire Escapes, &  
Grilles.

Write us. Estimates cheerfully furnished.

**Davenport Machine & Foundry Co.**  
DAVENPORT, IOWA



**PROPOSALS FOR HIGH SCHOOL CABINET WORK.**

Crookston, Minn.

Bids for furnishing and installing cabinets and book cases in the Crookston High School will be received until 7:30 P. M., February 20th, 1915, by the Board of Education Independent School District, No. 1, Crookston, Minnesota, at the office of the Superintendent at the Crookston High School.

Said proposals shall be made according to the plans and specifications prepared therefore by Bert D. Keck, Architect, Crookston, Minnesota, now on file at the office of Prof. G. H. Sandberg, Crookston High School, at the office of the Architect, and at the Builders Exchange, Minneapolis, Minn.

All bids are to be addressed to Mr. James Hanson, Clerk, and each bid to be accompanied by a certified check in the amount of \$300.00.

The Board reserves the right to reject or accept any proposal. Bonds will be furnished by the successful bidder as required by state law.

By Order of the Board of Education, February 4th, 1915.

Board of Education,  
By S. M. SIVERTSON,  
President.  
JAMES HANSON,  
Clerk.

**NOTICE TO GENERAL CONTRACTORS AND HEATING AND PLUMBING CONTRACTORS.**

SCHOOL.  
Sidney, Nebr.

Sealed proposals are invited for general construction and for the Heating.

Plumbing and Ventilating, of the High School Building at Sidney, Nebraska. Bids to be transmitted to the office of J. L. McIntosh, Moderator Board of Education, Sidney, Nebraska, on or before two o'clock P. M. March 8th, 1915.

Each bid is to be accompanied by a certified check in a sum equal to two (2) per cent of the amount of bid as security that bidder will enter into a contract and bond for the construction of the building and for the installation and completion of the heating, plumbing and ventilating of building according to plans and specifications. Said check will be retained by the Board as liquidated damages in case the successful bidder shall fail to enter into contract. All checks where bids have not been accepted will be returned to the respective bidders as soon as contract is awarded. The successful bidder will be required to give bond in the full amount of his contract.

The right is reserved to reject any or all bids.

Plans may be secured at the office of J. L. McIntosh, Moderator, Sidney, Nebraska, or at the office of John Latenser & Sons, Architects, Omaha, Nebraska. A deposit of \$25 will be required to insure return of drawings and specifications. This deposit to be refunded as soon as drawings and specifications are returned.

Dated at Sidney, Nebraska, February 2nd, 1915.

By order of Board of Education,  
By LEROY MARTIN, Director.

**DEEP WELL PUMPING EQUIPMENT.**

New Ulm, Minnesota.

Sealed bids will be received at the City Clerk's office at New Ulm, Minn., up to

5 o'clock P. M., March 2, 1915, for the furnishing of all tools, labor, materials and equipment for a deep-well pump-head including all electrical apparatus, partly described below.

Diameter of well casing, 12 inches.

Depth of well, 364.5 feet.

Required capacity, 250 gallons pm.

There shall be an open discharge about 30 feet above floor line.

About 150 feet of water in well-pump standing.

Switchboard panel and accessories complete.

Each bidder will be required to furnish detailed plans and specifications covering all parts included in his bid.

A general outline of the requirements and information for bidders to prepare their plans and specifications may be had upon application for same to A. J. Mueller, Supt., E. L. & W. W. Dept., and City Engineer F. D. Minium.

All bids are to be sealed and marked, "Proposal for Pump Head and Equipment," and accompanied by a certified check in the sum of ten per cent of such bid, payable to the City Clerk, to be forfeited to said City in case the successful bidder fails to enter into contract and furnish satisfactory bond within 10 days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated Feb. 2, 1915. New Ulm, Minn.  
Seal\*

WM. BACKER,  
City Clerk.  
A. J. MUELLER,  
Supt. E. L. W. W. Dpt.

# A Concrete Mixer Not Built In A Factory

The Northwestern Mixer never was built in a factory.

The mere casting into metal of the ideas embodying it is the least of the work connected with its evolution

It has taken hundreds of contractors and engineers and concrete workers of every kind throughout the world to perfect this wonderful machine—in charging—in mixing—in discharging—in its evolution.

## It Took Hundreds of Men to Write The Northwestern Mixer Book

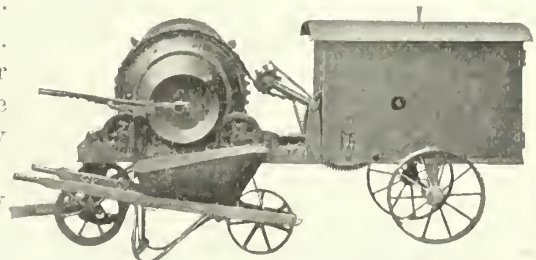
We have compiled one of the most complete books ever gotten up on the subject of concrete mixing. It deals with every phase of the concrete question.

It takes up the matter of mixers, block machines, etc.

A copy of this book is yours free for the asking. Send for it today. It shows concrete machinery for almost every purpose—as well as accessories. Be posted on every possible aspect of concrete work by the concrete authorities.

The machine shown here is but one of the many illustrated and described in this book.

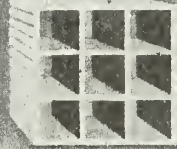
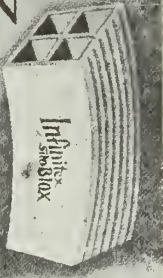
**Northwestern Steel & Iron Works**  
500 BALL STREET  
EAU CLAIRE, WIS.



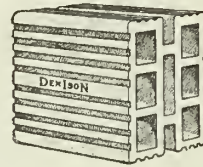
This is a Northwestern Mixer with a capacity of from 5 to 6 feet. It has a wonderful range of uses by both large and small contractors. It is the greatest profit-maker for the greatest number of people on the market.



# AMERICAN Brick & Tile Co.

AMERICAN FIREPROOFING  
BLOCKMASON CITY  
IOWAAMERICAN  
DRAIN TILE

Manufacturers of Common and Hollow Brick, Hollow Building Blocks,  
Fireproofing and Partition Tile, Vitrified Drain Tile from 4 to 24 inches.  
WE ALSO MANUFACTURE THE INFINITEX SILO BLOCK



## DENISON LOAD-BEARING TILE

U. S. and Foreign Patents Pending.

### THE STRONGEST TILE IN THE WORLD

Guaranteed crushing strength, 600 pounds to the square  
Inch.  
Superior for stucco exteriors or bonds perfectly with brick.  
Non-continuous mortar joints.  
Vertical webs directly over each other.  
Saving in cost erected of 25% over brick construction.

## FIRE-PROOFING MASON CITY BRICK & TILE CO.

MASON CITY, IOWA

Makers of All Kinds of Silo Tile, Drain Tile, and Hollow  
Building Blocks.

## Tile and Marble

For Floors, Walls, Ceilings, Etc.  
Slate Blackboards, Steps, Plat-  
forms, Marble Interior Finish,

ESTIMATES

T. S. Phone Annex 98  
N. W. Nicollet 2789

CALL US UP  
TODAY

**TWIN CITY TILE & MARBLE CO.**  
312-14 7TH ST. S. MINNEAPOLIS, MINN.

## A. C. OCHS BRICK & TILE CO. **BRICK**

Manufacturers of the  
CELEBRATED

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SAND MOULD and WIRE CUT FACE BRICK and BUILDING TILE

Works: {Springfield, Minn. General Office: { Springfield, Minn.  
Heron Lake, Minn.

POROUS HOLLOW TILE

## FIREPROOFING

HOLLOW TILE PLOCKS FOR RESIDENCES

**NORTHWESTERN FIREPROOFING CO.** 107 Kasota Bldg  
MINNEAPOLIS

## JUST AS GOOD AS A CANTON

Ever hear a competitor use that expression? Doesn't that  
admit, WITHOUT A DOUBT, that the "CANTON" is  
Known as the best. They are too, and for these reasons:

Punched Nail Holes. Repressed Joints. Lowest Cost

ANY ONE CAN ERECT A CANTON

## THE CANTON STEEL CEILING COMPANY

206 South Third Street, Minneapolis

BEWARE OF IMITATION, GET THE ORIGINAL

## The Flint Brick Company

Manufacturers of

### Paving Brick and Blocks

Sidewalk, Building, Sewer and Black Face Brick.  
DES MOINES, IOWA

## Chaska Brick & Tile Co.

Manufacturers of

### CHASKA BRICK SOLID AND HOLLOW

Telephones  
N. W. Cedar 1433  
T. S. 294

613 Ryan Bldg., St. Paul, Minn

## BRICK COMMON HOLLOW PRESS

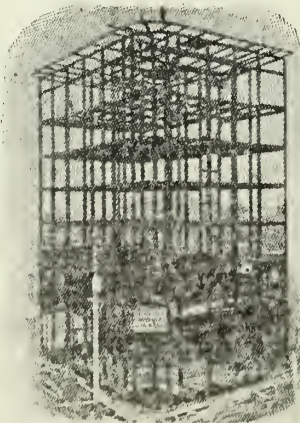
ALL ORDERS  
Filled Promptly **Sioux City Brick & Tile Works**

## HEBRON BRICK

Fire and Fancy Pressed

MANUFACTURED BY

HEBRON FIRE & PRESSED BRICK CO. **HEBRON,  
NO. DAK.**



## Structural Steel

of every description, for  
all purposes. Structural  
Shapes and Reinforcing  
Rods kept in stock.

ESTIMATES GLADLY  
FURNISHED

## Clinton Bridge Works

CLINTON - IOWA



## MADISON, WIS.

Bids will be taken about March 1 on the business building to be built at Francis estate by Madison Building Co.; brick, hollow tile, composition roof, sky lights, 91x60; bids taken by architects, Gordon & Balch, Madison.

Gordon & Balch, architects, Commercial National Bank building, have plans ready for bids on modern dwelling; hollow tile stucco, shingle roof, for C. N. Brown, 109 W. Main st.

Bids were in on the eight-room school for the city, plans by F. L. Kronenberg, architect, Madison, Wis.; brick, stone, tile roof, metal sky light, standard or equal varnish; \$50,000.

Aug. Schwenn, architect, 1315 Spaight st., will have plans ready soon for bids on a six-flat for Kennedy Bros., Washington building; brick veneer, composition roof, \$12,000.

James Law, architect, 931 W. Johnson st., is completing plans for a modern residence, hollow tile stucco, for W. W. Hart, 210 Monroe st.

Plans for a bank at Doylestown, Wis., are being prepared by James Law, architect, brick stone, composition roof, 1-story, \$5,500.

## SIOUX CITY, IOWA

The county supervisors have approved the bonds of Bechtel Co., Davenport, Iowa, which were purchased for the erection of the \$500,000 court house.

Beuttler & Arnold, architects, Security Bank block, are drawing plans for a new building on the site of the Gilman block, 6th and Pierce sts., which was recently destroyed by fire. The structure will be owned by W. S. Gilman and is to cost \$100,000. This block will be 4-story, concrete and brick, covering 100x100 feet.

The new Elks club house will be erected at a cost of \$70,000. The location selected is the corner of 5th and Douglas sts. Beuttler & Arnold are the contractors.

Dubel & Anderson have completed the costliest small town residence in this section of the state; it is the home of B. M. Stoddard, of Sloan, and was put up at a cost of \$30,000.

The William Tackaberry Co., wholesale grocers, have purchased a corner at 3d and Wall sts., 100x100 feet, for the erection of a new warehouse, the plans to be announced later.

## RAILROADS.

**Alta., Edmonton**—The next piece of construction that will be effected by the Canadian Northern Ry. is reported to be a branch line from Edmonton to Peace River Landing or Dunvegan, the key to the Peace River and Grande Prairie country.

**N. D., Grand Forks**—The Midland Continental Ry. are making surveys for extending their line from Wimbledon, N. D., to Grand Forks, a distance of 94.5 miles.

**N. D., Mandan**—Report states N. P. will start improvements soon in shops and trackage here to cost \$500,000, engine and repair shop, capacity to be doubled.

## SUPERIOR, WIS.

Contract was awarded to John Shea at \$1,094 for constructing approach to Bardon av. bridge over Nemadji river; eight bids received; Peppard & Fulton bid \$1,122.

Bids are in for paving Tower av. between 1st and 3d sts.

## MILWAUKEE, WIS.

Office: Hathaway Building: Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Martin Tullgren & Sons, architects, are preparing plans for a 27-apartment building to be erected at Stowell and Bradford avs.; owners' names withheld. Solid brick, 3-story, 120x180 feet, costing about \$110,000. Bids will be taken about Feb. 20. The same architects close bids Feb. 15 for the previously reported 18-apartment house for Margraff Bros. on Prospect av. and Lafayette pl., costing \$75,000.

Stanley F. Kadow, architect, 988 Kinnickinnic av., has the following work in hand: Bungalow for Charles P. Becker, at Clement and Howard avs., town of Lake; bids close Feb. 20. Four-family flat of solid brick, at Racine and Kewaunee sts., 2-story, 49x70 feet, costing \$12,000. Bids about March 1.

H. G. Lotter, architect, 304 West Water st., awarded following additional contracts on \$45,000 branch house for Cudahy Bros. Co. at Locust and Bremen sts.: ice and refrigerating machine and equipment, Vilter Mfg. Co., Milwaukee; painting, H. Madden.

Gustav A. Dick, architect, 811 State st., is taking figures on

a \$15,000 residence and garage for J. L. Sinyard (care A. O. Smith Co.), at Sherman boul., near Meineck av.; brick veneer, 2-story, 34x40 feet, with garage 22x20 feet, 1-story.

John Paulu, architect, St. Francis, is preparing plans for a new edifice for Holy Redeemer Roman Catholic congregation at Mount Vernon, Wis.; brick and stone, 40x76 feet, pressed brick exterior, hot air heating. Cost, \$15,000.

The board of park commissioners, F. P. Schumacher, secretary, close bids Feb. 15 for the construction of a field building as part of the new grandstand in Washington park. Bond of \$3,000. Previously noted. A. C. Clas, architect.

H. C. Maurer, architect, 302 W. Water st., is preparing plans for twelve frame cottages to be erected this year on the northwest side; owners' names withheld; brick foundations, 24x36 feet, furnace heating.

Van Ryn & DeGelleke, architects, 726 Caswell block, are making plans for a \$20,000 motion picture house for F. Schmidt, at Jackson and Knapp sts. Brick, fireproof, 1-story, 55x140 feet, seating 900.

R. E. Oberst, architect, 353 National av., awarded the contract for all cement and concrete work on a store, flat and garage, for J. G. Hochherz, at 1054 Lincoln av., to the Kroening Construction Co.

John Menge, Jr., architect, 605 Mattheus building, began taking bids Feb. 10 for the erection of a frame duplex, 38x34 feet, for his own account, at Wahl av. and Wright st.

Hugo Miller, architect, 809 M. & M. Bank, is inviting select bids for the erection of a 3-story and 30-flat building to be erected on Center st. at a cost of \$12,000.

H. J. Rotier, architect, 813 Goldsmith building, is taking bids on a 4-family apartment at Auer av. and Dousman st.; frame, 36x54 feet; bids close Feb. 15.

Theo. F. Schutz, architect, 296 West Water st., is preparing plans for a brick veneer residence and concrete garage; owners' name withheld. Cost, \$5,500.

Fred Graf, architect, 520 Mattheus building, will take bids by invitation after Feb. 12, for a \$5,000 residence for E. C. Cleveland.

## PUBLIC BUILDINGS

**B. C., New Westminster**—Harbor and market committees of the city council are taking preliminary steps for construction of city market. Address city clerk.

**Iowa, Cedar Falls**—Site has been purchased for proposed United States postoffice, site costing \$100,000.

**Minn., Duluth**—Geo. H. Lounsbury, low bidder at \$107,410, for the proposed new armory, has purchased 300 cord of rock, to be used in the building, the purchase being made from the city.

**Mont., Great Falls**—H. T. Liebert, architect, Marathon county bank building, has completed plans for a Carnegie library at Sibley, Ohio, and also for the new Carnegie library building to be built at Medford, Wis.

**Mont., Hamilton**—Council has accepted plans of Architect Proesdahl for Carnegie library building, construction to start when plans have been approved by Carnegie foundation. Address secretary library board.

**Mont., Valley Center**—Construction of community hall is under consideration. W. F. Wilson, chairman committee having charge of the matter.

**Neb., Collegeview**—All bids rejected on library building. W. E. Auhl, chairman library board.

**Neb., Chappell**—County commissioners have called election for Feb. 13 for vote on proposition for bonds to amount of \$20,000 for court house. Address county clerk.

**Neb., University Place**—Sketches being prepared by J. R. Smith, architect, Lincoln, Neb., for proposed library; 1-story and basement, \$20,000; will petition Carnegie foundation for assistance. C. H. Graham, secretary Commercial Club, city.

**N. D., Williston**—Effort is being made for an armory-auditorium building here to cost not less than \$25,000; plans for the structure have been prepared by Sam Crabbe, architect, Fargo; 50x140, brick, modern stage and balcony, seating capacity for 1,000.

**Wash., Olympia**—Bills have been introduced in both branches of the state legislature authorizing bonds to the amount of \$4,000,000 for erection of state capitol buildings.

**Wis., Fort Atkinson**—Plans reported ready for city library building; 35x64, \$14,000. Claude & Starck, architects, Badger Annex, Madison, Wis. Address Rev. H. K. Hawley.

**Jefferson, Wis.**—Allan D. Conover, architect, Madison, Wis., awarded following contracts on remodeling of Jefferson county jail: General contract, including mason and carpentry, Stengel & Fuerbringer, Jefferson; plumbing, heating and ventilating, C. F. Bullwinkel estate, Jefferson.



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**Wis., Madison**—The budget presented to the legislature for the needs of the state fair provides for the following buildings, etc.: sewerage and sanitation, \$25,000; fencing, \$10,000; new grandstand, \$125,000; poultry building, \$20,000; sheep barn and judging pavilion, \$35,000; woman's and art building, \$50,000; auditorium, \$75,000; swine barn and judging pavilion, \$45,000; bandstand, \$2,000; Oliver E. Ramey, secretary, Milwaukee.

**Wis., Marion**—The common council has engaged C. C. Fritz, architect, Shawano, Wis., to prepare plans for a municipal building costing \$10,000, and including a public auditorium. John Miller is chairman.

#### BIDS WANTED.

**Mont., Forsyth**—Bids received by city clerk until Feb. 15 for jail building; 1-story, brick; cost about \$5,000.

**Okla., Oklahoma**—Bids received by Ira Mitchell, secretary state capitol commission, until 10 a. m., Feb. 25, for electrical supplies to be used in the state capitol building; check for 5 per cent.

**Ore., Pendleton**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., March 25, for the construction complete, including mechanical equipment, except elevator, lighting fixtures and approaches, for the U. S. court house and post office here; 3-story and basement, fireproof, ground area of 5,500 square feet; stone, terra cotta and brick facing.

#### CONTRACTS AWARDED.

**Mont., Bozeman**—Contract awarded to the Olson & Johnson Co., Missoula, for federal building, at \$62,575.

**Neb., Beatrice**—Contract to E. W. Dugan, Sedalia, Mo., for painting plastering at United States postoffice.

**Neb., McCook**—Contract to C. E. Goodhand, Ord, for government building, at \$89,500.

**Wash., Walla Walla**—Contract to Stakis & Stakis for painting plastering at United States postoffice at \$1,180.

**Wis., Racine**—Contracts for remodeling county court house at a cost of \$15,000 have been let as follows: General, H. Brauer & Co.; carpentry, L. C. Sorenson; electrical, D. Elmer Roberts; heating and ventilating, Thomas Heating Co.; plumbing, John Feiner; painting and decorating, W. S. Buffham & Sons.

### THEATRES AND HALLS

**Iowa, Sioux City**—Plans under way for building for Colonial Theatre Co.; Buettler & Arnold, architects, Sioux City; approximate cost, \$20,000; fireproof.

**Iowa, Sioux City**—Sketches for new Elks' building, to be located at Douglas and 8th sts., are being made by Architects Buettler & Arnold and will be submitted to the lodge for approval. A. F. Nash, chairman of the building committee, said special committee would be appointed to confer with the architects. Plans for the Sioux City club house include a gymnasium with baths, billiard parlors, bowling alleys and a modern cafe, Mr. Nash said.

**Mich., Houghton**—Effort is being made to secure 2-story addition to public library building; Carnegie Library foundation will be appealed to for funds required. Address secretary library board.

**Minn., Avoca**—M. G. Rath planning to build brick hotel.

**Minn., Crookston**—Plans approved by local board for \$30,000 sanitarium at Lake Julia; Beltrami, Hubbard and Koochiching counties interested. Address Dr. W. W. Higgs, Park

**Minn., Long Prairie**—Motion picture theater to be built by P. H. Tallman, proprietor Cozy theater.

**Minn., Park Rapids**—Reported that S. P. Mace contemplates building a theater, and he wants plans.

**Minn., Rochester**—Building committee of Commercial Club authorized to proceed with final plans and specifications for the proposed club building. John M. Rowley, chairman.

**Minn., Shakopee**—A new hall will be built in Marystown in the spring, 36x60, for social purposes generally.

**Mont., Dixon**—An effort is being made to build a club house at Little Arkansas, and part of the funds required have been secured. Address mayor of Dixon.

**Mont., Mussellshell**—Plans being made for extensive improvements to Riverview hotel; proposed to double the width and add 30 feet to the length; hot and cold water, steam heat, bathrooms, etc.; F. A. Anderson, proprietor.

**Neb., Greenwood**—Odd Fellows and Masons are endeavoring to get together on a site for a jointly-owned lodge building. Address secretary either order.

**Neb., Hastings**—Plans maturing for club house for Hastings Country Club. G. J. Evans, chairman committee in charge.

**Neb., Lincoln**—Decision of Masonic building committee to erect a new temple on site of the present building ratified by Lincoln lodge No. 19, A. F. & A. M. The proposed building will be for the use of all Masonic bodies.

**Neb., Omaha**—Contract to N. J. Hildig, 925 N. 28th av., for moving picture theater and store building; E. B. Winn, owner, 2103 Binney st.; 50x161, 2-story and basement, \$17,000.

**Neb., Springfield**—Fire in hospital; damage to amount of \$1,000; insured.

**N. D., Cogswell**—Work has begun on the proposed picture theater; 64x24, with an ell 32 feet wide; second story for Masonic lodge. O. H. Webster, chairman building committee.

**N. D., Devils Lake**—Elks have definitely decided to build; work will be taken up when weather permits. Address secretary of the lodge.

**N. D., Dickinson**—Dickinson Golf Club will build a club house. J. L. Hughes, secretary.

**N. D., Enderlin**—Masonic bodies have secured sufficient funds to go ahead with proposed temple and auditorium; probable cost about \$12,000. Address secretary Masonic lodge.

**N. D., Kremlin**—Hotel owned by W. B. Brookshire burned; partly insured.

**N. D., Tappen**—Drs. von Siemmel and La Roulessy have a lease on what is known as island on Crystal Springs lake; it is planned to build sanitarium and hotel of 300 rooms, modern.

**Wis., Delavan**—Pythian Corporation incorporated with \$15,000 capital to build club house. E. L. von Suessmilch, secretary.

**Wis., Ladysmith**—Business men may combine and build an exhibit hall at the fair grounds. Address secretary fair association.

**Wis., Waukesha**—New Colonial theater damaged by fire to amount of \$2,000.

**Wis., Wausau**—Eagles have decided to build club house and board of trustees authorized to purchase site. Address secretary of order.

**Wis., Milwaukee**—The \$50,000 building which Kenwood lodge, F. & A. M., will erect at Hackett av. and Park place, will be reinforced concrete, brick and terra cotta, 3-story, 55x110.

**Wis., Oshkosh**—Members Masonic building association still considering sketches, plans and specifications for proposed rebuilding of Masonic temple. Address secretary Commercial Club.

**Racine, Wis.**—Guilbert & Funston, architects, Racine, and C. D. McLane, architect, Rock Island, Ill., have awarded following contracts on new Y. M. C. A. building at Racine, to cost \$175,000 complete: General contract, A. C. Kappel, Racine, \$81,200; plumbing, John Feiner, Racine, \$7,980; heating and ventilating, Thomas Heating Co., Racine, \$7,797. Excavating and electrical work not yet awarded.

**Wis., Wautoma**—Hansen house burned.

#### BIDS WANTED.

**Iowa, Quasqueton**—Bids received by Harry E. Netcot, architect, care L. P. Timpson, city, about March 1, for Buchanan county home building; 60x90, 2-story and basement, \$40,000.

**Wash., Seattle**—Plans completed about Feb. 15 and bids for construction asked soon after for erecting 4-story brick apartment house for Modern Woodmen of the World, Camp No. 69, at a cost of \$105,000. J. O. Taft, architect, 2324 1st av. N.

**Wis., Baraboo**—C. W. and G. L. Rapp, architects, 69 W. Washington st., Chicago, Ill., will soon be ready for bids for the erection and equipment of a theater and auditorium building to be erected in Baraboo, Wis., by Al. Ringling. It will be of brick, steel and concrete, 90x140; estimated cost, \$45,000.

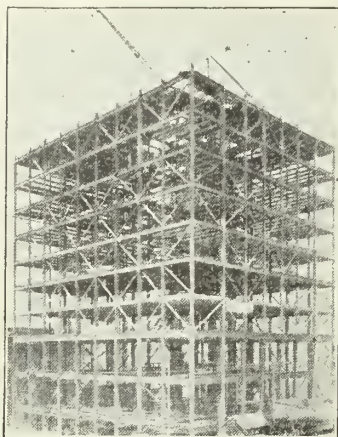
**Wash., Bremerton**—Reported bids are wanted by Oswald & Rantz of the Osran Amusement Co., for concrete picture theater, costing \$60,000; concrete; plans by Max Umbrecht, architect, Seattle.

#### CONTRACTS AWARDED.

**Minn., Duluth**—General contract to Bergquist Bros., American Exchange Bank building, for lodge and store buildings for Dickerman Investment Co., Providence building, 60x100, 2-story and basement, \$30,000.

**Wis., Milwaukee**—Contracts have been let as follows on theater building owned by J. S. Grauman & Bros., 757 Summit av.; structural iron and steel to C. Hennecks Co., 1353 N. Pierce st.; reinforced concrete system to C. M. Winne-mann, 816 1st st.; masonry to Aug. Grojeau, 1064½ 18th st.; plastering to H. Winkelman, Jr., 1353 34th st.





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## HOTELS AND HOSPITALS

**Iowa, Bellevue**—Plans completed for hotel building; Commercial Club behind proposition; \$16,000; brick, stone, steel, cement, hardwood floors and finish, tile, steam heat, electric wiring, plumbing, roofing, ventilation. John Spencer, architect, Dubuque, Iowa.

**Iowa, Cedar Rapids**—Capitalists of Grand Rapids, Mich., have purchased for \$90,000 building recently vacated by the Perfection Manufacturing Co., and will remodel it into a first class hotel. Address secretary Commercial Club.

**Iowa, Council Bluffs**—Plans under way and work will probably start soon for Christian Orphanage home; probable cost for addition and remodeling, \$60,000.

**Iowa, Mason City**—Improvements to the value of \$50,000 are contemplated for the Hotel Cerro Gordo, according to Sam. S. Foster, manager; entire building will be remodeled and 40 rooms added.

**Man., Winnipeg**—Belmont hotel on Main st. burned; loss, \$40,000, insured for \$10,000. D. McArthur, owner.

**Minn., Alexander**—The National Contracting Co., this city, is figuring on proposed government hospital to be built at Red Lake, Minn., and desires figures on material.

**Minn., Beardsley**—Citizens are planning for a modern hotel. Address the mayor.

**Minn., Duluth**—Bill for county hospital redrafted by Oscar Mitchell and will be submitted to legislature; cost about \$150,000. After the enabling act the county will have to authorize construction.

**Minn., Henriette**—August Norlander has purchased site and will build a 2-story hotel.

**Minn., Long Prairie**—Dr. W. A. Elver expects to build a veterinary hospital in the early spring.

**Minn., Maple Lake**—Plans completed about Feb. 10 for hotel owned by Frank Hoppe, city; 116x46, 2-story and basement. Silas Jacobson, architect, Capital Bank building, St. Paul, Minn.

**Minn., Winnebago City**—Reported that W. A. Cramer has purchased Arden hotel and will make improvements and possibly build addition.

**Mont., Eureka**—B. P. Mooney will build an addition to the Augusta hotel.

**Mont., Kremlin**—Kremlin hotel burned; loss, total; insured for \$5,000. H. P. Brookshire, owner.

**Mont., Polson**—The remodeling of the Bell hotel building is contemplated. C. W. Estes, owner.

**Neb., Columbus**—Addition is to be built to St. Mary's hospital; operating room, X-ray room, several large rooms for patients, and a large hall.

**Neb., Kearney**—Reported that plans for the new state hospital here will be drawn by Architect Craddock, of Omaha; there will be three structures; estimated cost about \$35,000. Dr. E. R. Vanderslice, superintendent.

**Neb., Omaha**—Addition is contemplated to the Swedish Mission hospital. Carl Johnson, chairman building committee, 334 Davenport st.; 30x40, 3-story and basement.

**Neb., Wayne**—Progress is reported on the proposition to build hospital here, \$6,000; funds partly raised. Address the mayor.

**Neb., York**—Reported that bids will be asked for at once for the German Luther hospital. W. F. Gernandt, architect, city.

**Wis., Hawthorne**—Phiedes hotel burned; loss, together with store, about \$10,000.

**Wis., Kenosha**—Site for the proposed Kenosha county tuberculosis sanatorium has been purchased; plans reported ready, and expected contract for construction will be made early in March. Russell H. Jones, county clerk.

**Wis., Sturgeon Bay**—Carr & Walsh, architects, Green Bay, Wis., are preparing plans for a hotel building for the Co-operative Orchards Co., of Sturgeon Bay; it will be of brick and concrete, 2-story and basement, 80x150 feet, and cost between \$10,000 and \$15,000. J. C. Martin, secretary.

## BIDS WANTED.

**Wis., Fort Atkinson**—Bids will be taken by W. D. James about Feb. 25 for hospital; 38x64, 3-story and basement; \$16,000. Jno. G. Shodron, architect.

## CONTRACTS AWARDED.

**Neb., Omaha**—General contract to Robt. Butke, city, for home for working girls; owned by trustees for home, 2102 Davenport st.; cost \$52,000; 40x130. 2-story, brick, reinforced concrete, steel, probably fireproof.

**Milwaukee, Wis.**—Final contracts on \$60,000 apartment house for Charles Gilman and F. C. Courtenay on 12th st., near Grand av., were awarded as follows by Leenhouts & Guthrie, architects, Milwaukee: Plumbing, Dearsley Bros.;

heating and ventilating, Zuehlke Heating Co.; roofing, H. W. John-Manville Co.; elevators, S. Heiler Elevator Co., Milwaukee.

## ELEVATORS

**Minn., Ashcreek**—Northern Pacific elevator burned.

**Minn., St. Paul**—Monarch elevator at Carthage Junction burned; total loss.

**N. D., Coulee**—Cullen elevator burned, partly insured.

**N. D., Grand Forks**—Monarch elevator at Carthage Junction, Minn., burned, Monarch Elevator Co., Minneapolis, owners.

## MISCELLANEOUS

**Iowa, Cedar Rapids**—Bids received until 10 a. m., Feb. 26, by city council for sidewalk, river wall and stairs; check for \$1,000; reinforced concrete and piling. L. J. Story, city clerk.

## ELECTRICAL

**Iowa, Imogene**—City council is considering installation of a municipal electric light system, reported that energy to operate will be obtained from Shenandoah plant.

**Kans., Pratt**—Plans are being prepared by E. T. Archer & Co., New England building, Kansas City, Mo., for addition to electric light system. M. P. Jones, city clerk.

**Minn., Eveleth**—Council has set March 2, as date for special election to vote on gas franchise.

**Minn., Milan**—Hougland & Kanton are planning to install an electric light and power plant here.

**Mont., Butte**—The Milwaukee railway has secured right of way for power line from Butte to Avery, Idaho, seven sub-stations to be erected.

**Mont., Fort Benton**—\$50,000 bonds sold, part of which will be used for electric lighting plant.

**Mont., Glendive**—Ordinance passed granting M. W. Milligan the right to construct, maintain and operate conduits, fixtures and mains for transmitting gas to the public, or for private use. Aug. Colon, city clerk.

**S. D., Bonesteel**—Proposition is being made for installation of electric light plant here.

**S. D., Summit**—Citizens voted in favor of electric light plant.

**Wis., Chilton**—Common council of city has appropriated \$200 to assist Sheboygan Railway & Light Co., Sheboygan, Wis., to make preliminary surveys for proposed interurban and transmission line extension, from Elkhart Lake, Wis., to Chilton.

**Wis., Lancaster**—City votes for right-of-way for the Chicago Short Line, electric road, here, carried.

**Wis., Medford**—Medford Light & Power Co. plan to install new machinery and erect new power house; 24-hour service; Wm. Ungrodt, Medford, superintendent and chairman, engineer.

**Wis., Oshkosh**—Contract awarded to Langstadt Meyer Construction & Supply Co., city, to install electric lighting fixtures in the county sanatorium.

**Wis., Wshburn**—Bayfield County Telephone Co. will rebuild its telephone system. C. Wright, manager local company.

**Wis., Wausaukee**—Citizens of village are discussing proposition of securing light and power from High Falls. Cost, \$10,000.

**Wyo., Cheyenne**—Western Power Co. will make improvements to light plant; turbine engine and automatic stockers will be installed; cost \$50,000.

## BIDS WANTED.

**Kans., Gaylord**—Bids received until Feb. 17, 7 p. m., for following for municipal electric light plant: separate bids for internal combination engine; one 50 h. p. and one 30 h. p.;

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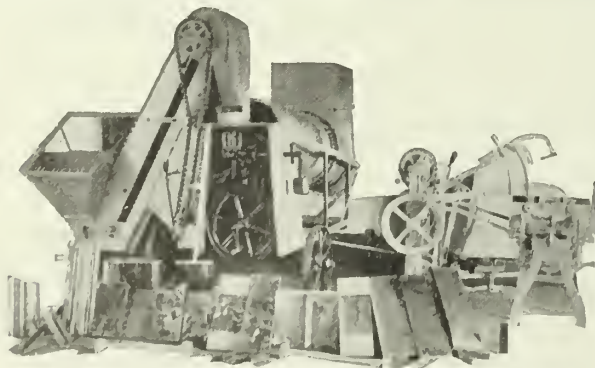
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#### CONTRACTS AWARDED.

**Iowa, Des Moines**—Contract awarded to Capital City Electric Co., for installation of electric light fixtures in new North Des Moines high school, at \$345.

**Iowa, Conrad**—Contract awarded to Iowa River Light & Power Co., for lighting streets of village.



### SCHOOLS



**Iowa, Luray**—\$3,500 bonds were voted for new school in Clark county.

**Iowa, Manilla**—A new school may be erected here.

**Iowa, Manson**—High school bonds of \$40,000 voted, for new building.

**Mich., Calumet**—Plans prepared by Architect C. W. Maas, of Houghton, for a high school, 3-story, brick, Portage entry sandstone trim, 120x75, modern gymnasium, manual training, kindergarten, modern baths, playroom, domestic science, dining rooms, library offices, second floor; third floor, seat 150, laboratories, wardrobes, superintendent's offices; fan system of heating, artesian wells, modern ventilating system; \$30,000 bonds voted; spring work. McMillan township, Baraga county.

**Minn., Ely**—White iron school burned, in district No. 12.

**Minn., Glenwood**—High school is to be erected will cost \$50,000, 68x123, gymnasium, manual training, agricultural rooms, lockers, shower baths, etc., modern throughout.

**Minn., Kenyon**—The \$49,000 bond issue carried for new school.

**Minn., Lamberton**—Special school election, \$45,000 bond issue voted for new buildings.

**Minn., Lamberton**—\$45,000 bonds authorized issued by board of education for a high school in Redwood county, district No. 31.

**Mont., Bozeman**—Plans are in progress for edifice which the Holy Rosary Catholic congregation will build; Fred Leveque, John Gary and others, trustees.

**Neb., Campbell**—Work will begin in spring on new school; cost about \$16,000.

**Neb., Lawrence**—School district 13, Franklin county and district No. 79 Webster county, will erect a modern brick school with full basement.

**Neb., Oakland**—A new high school will be erected here.

**N. D., Granville**—Election held Feb. 16 to vote \$17,000 school bonds in district No. 25, 4 per cent, between hours of 9 a. m. and 5 p. m. O. O. Sheggeby, district clerk.

**N. D., Kelso**—Reported that Kelso will have new school building in the spring.

**Wis., Menomonie**—Council has voted permit for erection of a domestic science hall for school.

**S. D., Rockham**—Board of education desires plans for a school; cost \$11,000. A. B. Linn, clerk.

**Wis., Patch Grove**—A 2-story and basement school will be erected, 59x66. F. H. Kemp, architect, Unity building, Beloit, Wis. Bids taken soon, care of Mr. Garride, B. of E. Cost \$14,000.

**Wis., Sheboygan Falls**—\$150,000 bonds will be issued for a high school; Edward Voight, city attorney.

**Wis., Wausaukee**—High school burned; loss about \$15,000; insured at \$7,500.

**Wis., Wausaukee**—Plans are under way for new high school to replace building recently burned.

#### BIDS WANTED.

**Minn., Crookston**—Bids received until Feb. 20, 7:30 p. m., for Crookston high school; plans by Bert D. Keck, architect, Crookston, on file at architect's office, also with Prof. G. H. Sandberg, and at Builders' Exchange, Minneapolis, Minn.; certified check \$300; S. M. Sivertson, president, James Hansen, clerk; official advertisement in the Improvement Bulletin this week.

**Minn., Wanda**—Bids received until Feb. 26, 2 p. m., for school in Redwood county, district No. 94, includes heating, ventilating complete; check \$200; Wm. Huehl, clerk.

**Mont., Anaconda**—Bids received until Feb. 20, 8 p. m., district No. 10, for following furniture for new school building; Two teachers' desks and chairs, twenty-four visitors' chairs, principal and physical director's rooms; two rungs, two roll-top desks, two roll-top desk chairs, eight straight chairs, one hundred and forty-four auditorium chairs, four dressing

tables, eight dressing table chairs, one hundred steel lockers, rubber matting and brass nose on steps, window shades, cork carpet for running track. Plans and specifications at office of Clerk Florence N. Cole.

**Neb., Sidney**—Bids received until 2 p. m., March 8, for general construction, heating, plumbing and ventilating in high school, check 2 per cent, plans at office of J. L. McIntosh, moderator, Sidney, office of John Latenser & Sons, architects, Omaha, Neb.; official advertisement in the Improvement Bulletin this week.

**N. D., Fargo**—Bids received until March 3, noon, for heating, ventilating, plumbing, electric wiring, of new concrete and brick school in Hector's addition; plans by Samuel F. Crabbe, architect, check, 5 per cent; E. G. Guthrie, secretary board of education.

**N. D., Forman**—Bids received until March, 2, 12 m., for one fire escape and installation of same for school; C. H. Forman, clerk, school board.

**N. D., Manning**—Bids received until March 15, for school in district No. 21; plans with President J. W. Scott, Irving T. Lewis, clerk.

**N. D., Wales**—Bids received until Feb. 20, 2 p. m., for school in section 25; plans at office of superintendent of schools, Langdon, N. D.; check for \$100. Address bids to Ludwig Pederson, Munich, N. D.

**Wis., Monroe**—Bids will be taken early in spring on 2-story and basement school, 54x119; cost \$35,000. Claude & Starcke, architects, Annex building, Madison. M. E. Baltzer, Monroe, takes bids.

**Wis., Oshkosh**—Bids received until Feb. 20, 12 m., for 3-story addition to normal school and basement; check of 5 per cent on general contract; check for 10 per cent on plumbing, sewerage, heating, ventilating, tile and marble, electrical work; plans on file with board of regents, Madison, office of Van Ryn & De Gelleke, architects, 726 Caswell block, Milwaukee, office of normal school and Builders' & Traders' Exchange, Oshkosh; Wm. Kittle, secretary.

#### CONTRACTS AWARDED.

**Wis., Eastman**—Contract awarded to C. M. Bradley, Wild Rose, Wis., for public school, solid brick, 2-story, 40x60; H. W. Pierce, president, board of education.

**Wis., Waterford**—Contract awarded to Matt Rewald and Henry Dressman for high school; work to begin soon.



### MILLS AND FACTORIES



**Iowa, Ringsted**—A new fireproof creamery will be erected here this summer.

**Minn., Meriden**—Bids received until Feb. 17, for addition to creamery plant; plans at office of creamery, Fred Fette, secretary; check 10 per cent.

**Minn., Evelth**—Special election will be held in 30 days to vote on franchise for gas plant.

**Minn., Mankato**—The Free Press Printing Co., have purchased the Klein building, and will remodel same.

**Mont., Billings**—Old Cove Orchard Co. has sold \$200,000 bonds for erection of a canning factory.

**Mont., Kalispel**—A portable mill will soon be erected here.

**N. D., Abdeen**—The Equity Mercantile Creamery Exchange will erect a creamery here, 48x140, 3-story; H. O. Bratsberg, interested, Aberdeen.

**S. D., Bridgewater**—Flour mill and warehouse burned; loss, \$12,000. J. H. Scofield, of Minot, owner.

**S. D., Sisseton**—Feed mill of O. B. Osmundson burned, loss \$2,000; insured at \$1,000.

**Wis., Appleton**—Bids will be taken about March 1 on wood-working plant, dry kiln 22x60, boiler house 28x30, 2-story, 40x120; cost \$10,000. W. H. Gmeiner, architect and contractor. Owner's name withheld.

**Wis., Boscobel**—The P. H. & Co., creamery burned, will probably rebuild.

**Wis., De Pere**—The Western Steel & Iron Co. have plans prepared for a large addition to their plant; brick, 2-story, 60x90.

**Wis., Kenosha**—Cooper Underwear Co. will erect an addition to factory, 4-story and basement, 101x107; cost \$85,000. Davidson, Lockwood & Morgan, architects; Patterson & Davidson, engineers, 53 W. Jackson boulevard, Chicago. Plans completed; owner will do masonry and carpenter work; day labor; architects will take bids on other contracts.

**Wis., Madison**—Main plant of the Scanlan-Morris Mfg. Co. burned, loss, \$70,000, insured, will rebuild; will reopen in temporary quarters for present. S. G. Scanlan, president of company.

**Wis., Marshfield**—Fire damaged planing mill of the Upham Manufacturing Co., about \$1,000.



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**Wis., Marshfield**—A sauerkraut factory may be erected here; F. L. Barvelink, manager of local station for Libby, McNeill & Libby, Chicago.

**Wis., Shawano**—Shawano Hub Co., incorporated; T. S. Davis, Wausau, secretary and treasurer; T. S. Davis and W. C. Landon, directors; capital, \$40,000; plans being made for a plant.

**Wis., Superior**—W. A. Whitney, president, Superior Knitting Mills, is planning a substantial enlargement of the plant.

**Wis., Wausau**—John Prain's sawmill, on Eau Claire river, burned.

**Wis., Wausau**—Wausau has been selected as site for packing plant of the Farmers Co-operative Packing Co.

## CHURCHES

**Iowa, Breda**—The Catholic church will be enlarged and remodeled.

**Iowa, Mason City**—Young men of Grace M. E. church are planning addition to church, cost about \$8,000 to \$10,000.

**Iowa, Muscatine**—First Presbyterian church awarded contract for \$40,000 improvements.

**Iowa, New London**—Presbyterian congregation will remodel and build addition to church, 26x39 and 36x52. W. F. Weibley, architect, 510 Tama building, Burlington, Wis.; J. A. Wickwire, pastor. Plans in progress.

**Iowa, Sioux City**—Swedish Evangelical Mission church plan to erect a mission church this year, Rev. C. A. Gavert, pastor; to cost about \$30,000.

**Iowa, Vinton**—Members of Baptist congregation are planning to rebuild edifice recently burned; modern.

**Kans., Topeka**—St. Mark's African Episcopal church will erect new edifice soon as funds have been raised; 56x65; cost \$8,000. L. M. Wood, architect. Rev. W. M. Martin, rector. Plans completed and bids will be called for soon.

**Kans., Topeka**—Foundation in for M. E. church, Rev. Hughes, pastor, care of architect; 1-story and basement, 45x55. T. W. Williamson, architect, Central National Bank building. Bids on superstructure taken in spring.

**Minn., Long Prairie**—Lutheran congregation will build at Reynolds in spring, 28x38, modern; cost \$1,500.

**Minn., Moorhead**—New \$25,000 Norwegian Lutheran church will be erected here; plans completed.

**Minn., Pennington**—Members of Mamrelund Swedish Lutheran congregation will erect church; J. F. Floren, A. Benson and A. J. Lindgren, committee.

**Minn., Young America**—Following bids were received for St. John's Lutheran church: H. R. Lange, Madsen Bros., Beckwall & Wedell, C. M. Steenberg, Casper Spiess, Standard Construction Co., O. C. Evenson, Edw. Hirt, C. E. Wierschke, I. W. Baumeister, C. J. Johnson, Johnson Construction Co., bids include labor, lumber, cement, lime, painting, faced stone and iron work; A. F. Gauger, architect, St. Paul.

**Minn., Young America**—Bids will be taken later on heating plant, pews, pulpit, altar, decorations and glass for windows, to be let by separate contracts; A. F. Gauger, architect, St. Paul, Minn.

**Neb., Chappell**—Trustees of M. E. church are making plans for new edifice, new plans received and being considered.

**Neb., Hastings**—Funds being raised for new church building, \$33,650 being secured; Dr. Ilff, of Denver, Colo., interested.

**Neb., Osmond**—The Lutheran church will erect a new edifice soon as plans are perfected; Henry Schumacher, chairman, building committee.

**N. D., Sentinel Butte**—Catholic congregation will erect a new edifice, funds being raised, Rev. Father Wolpers, pastor.

**N. D., Sims**—Plans and specifications have been drawn by N. A. Freeburg, of Bismarck, for concrete basement under church, bids to be advertised for soon; cost, about \$1,100.

**Wis., Chilton**—German Catholic church burned, insured at \$14,000; Rev. Father Thelen, pastor.

**Wis., Chilton**—Board of trustees of St. Mary's R. C. congregation has been authorized to start project for new edifice, seating 1,200, in combination with school for 400; total cost about \$75,000; no plans yet adopted or contracts let.

**Wis., Chippewa Falls**—The Notre Dame congregation propose to erect a convent for the sisters, spring work; cost, about \$15,000. W. E. DeKolver, secretary finance committee.

**Wis., Eau Claire**—Bids will be received until Feb. 15, for rebuilding of Lutheran church at Big Elk Creek, brick veneer.

**Wis., Green Bay**—Foeller & Schober, architects, Green Bay, Wis., will receive sealed bids until Feb. 27 for the erection of a \$20,000 stone and brick edifice for St. John the Baptist congregation at Duck Creek, Brown county.

**Wis., Theinville**—Roman Catholic church will build 2-story building, cost \$4,000; plans not started. Wm. F. Hilgren, architect, Cedarburg, Wis.

## BIDS WANTED.

**Minn., Fairfax**—Bids received until 12 noon, Feb. 27, for church for the Evangelical Lutheran congregation; plans by A. F. Gauger, architect, St. Paul, Minn., check 1 per cent; plans at office of Builders' Exchange, St. Paul, Minn., office of A. G. Briesse, First National bank, Fairfax, and office of architect, St. Paul; official advertisement in the Improvement Bulletin this week.

## RESIDENCES

**Iowa, Keokuk**—Sheriff Scott, of Lee county, will have residence remodeled into bungalow; bath room, modern throughout.

**Minn., Moose Lake**—Swedish congregation will erect parsonage for pastor; modern throughout.

**Mont., Great Falls**—Permit issued to H. E. Gates for 1-story frame dwelling. Cost \$3,000.

**Neb., Burchard**—Louis Borden is planning residence in the spring; electric lights, modern throughout.

**Neb., Grand Island**—A modern residence will be erected by George A. Coffey.

**Neb., Howells**—A modern cement block and lumber residence will be erected by Jos. J. Petricek.

**Neb., Kearney**—A modern bungalow will be erected by F. E. Hutchinson.

**Neb., Kearney**—A modern residence will be erected by Frank Hutchinson.

**Neb., Lincoln**—H. C. Jennings will erect brick flat building, 38x55; cost \$16,800; permit issued.

**Neb., Lyons**—F. W. Loppnow plans to build modern dwelling the coming season.

**Neb., Morse Bluffs**—Frank Vopalensky will erect modern house in spring.

**Neb., Newman Grove**—A. B. Robinson will erect a modern dwelling.

**Neb., Norfolk**—A. G. Thiem will erect a modern dwelling.

**Neb., Osmond**—W. E. Loyd will erect a modern cottage in the spring.

**Neb., South Sioux City**—A \$2,200 parsonage may be built for the M. E. congregation.

**N. D., Forman**—A. W. Johnson plans to erect a modern residence in the spring.

**N. D., Grafton**—Fire destroyed the farm house of Mrs. Tom Olson; loss about \$2,000.

**N. D., Linton**—Following will build new dwellings: Aug. Schorzman, agent for Goodridge-Call people; Messrs. Briggles & Geil and others.

**N. D., Wahpeton**—Christ Hoffman will erect a modern dwelling.

**S. D., Lemmon**—Fire destroyed the home of Mr. and Mrs. Chester Boynton; loss \$4,000.

**Wis., Lyons**—John H. Smith will erect a dwelling.

**Wis., Milwaukee**—Martin Tullgren & Sons, architects, will start taking bids about Feb. 20 on a \$75,000 apartment building containing 18 flats, for Marggraff Bros., at Prospect av. and LaFayette place.

**Wis., Milwaukee**—Leenhouts & Guthrie, architects, 428 Jefferson st., awarded following contracts on \$60,000 apartment house for Charles Gilman and F. C. Courtenay on 12th st. near Grand av.: Mason, Richard Hoepfner; carpenter, Wierdsma & Laatsch; cut stone, C. W. Tingley; concrete and cement, Northwestern Concrete Co.; iron, Northwestern Bridge & Iron Co.; tile, Milwaukee Tile & Mosaic Co.; electrical, A. C. Electric Co., all of Milwaukee.

**Wis., Milwaukee**—Leenhouts & Guthrie, architects, 428 Jefferson st., will prepare plans for a 28-apartment building for Mrs. Olivia Drew, Milwaukee; brick and steel, 56x117, 4-story and basement. Cost about \$75,000.

## GARAGES AND BARNs

**Iowa, Lansing**—Jos. Gander will erect a cement block barn.

**Minn., Arlington**—John Hahn of New Auburn county, will erect a new barn, 38x70, and granary, 28x28; spring work.

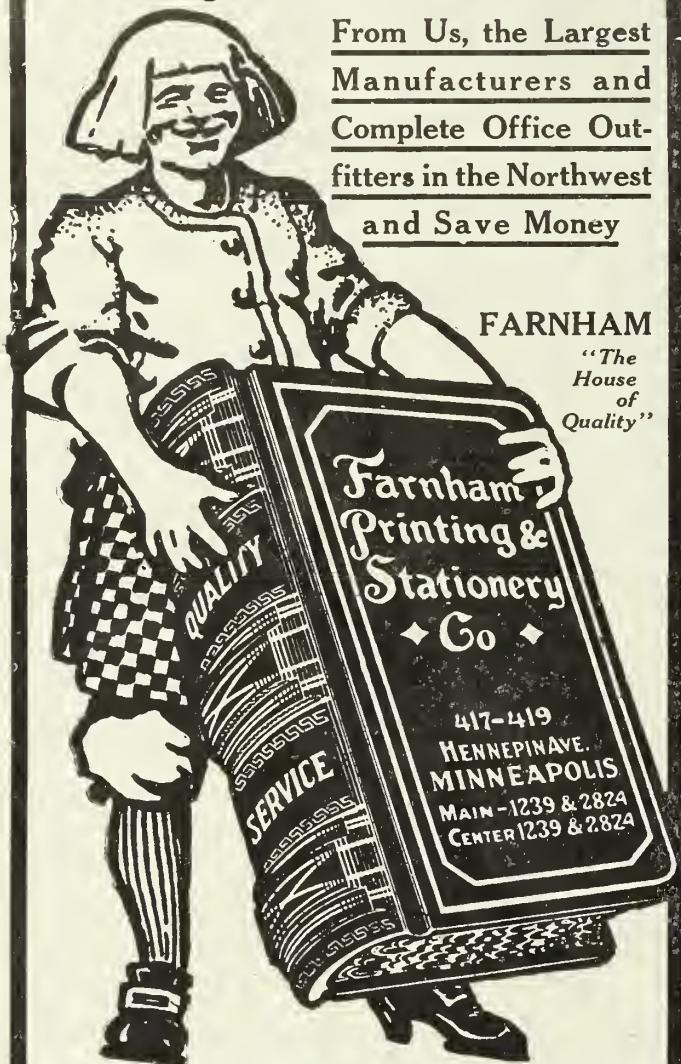
**Minn., Becker**—Becker garage, recently burned, will be rebuilt in spring, by Robert Carlson.

**Minn., Gibbon**—Johnson & Johnson, hardware dealers, etc., will erect a modern garage soon; plans approved; brick, cement floors, 50x140, plate glass front, rear to be 2-story, elevator, steam heat, electric lights, modern throughout.



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The Improvement Bulletin



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**Minn., Plato**—T. F. Miller states that a modern garage will be erected this year.

**Minn., Richmond**—Peter Shackmann will erect a barn, also John A. Willenbring of Eden Lake; spring work.

**Wis., Chippewa Falls**—Plans completed for Barker's Auto Co. garage; work to commence at once; brick, tiling, stucco and Twin City brick, pressed brick, plate and prism glass front, 60x140, modern throughout.

**Wis., Marinette**—Large barn at asylum burned; loss \$10,000; insured at \$1,800; Superintendent R. M. Smith; will rebuild.

**Wis., Marshfield**—Wm. Wenzel will erect a modern building for garage, 44x40, 1-story, stone.

**Wis., Neenah**—Large barn of Geo. A. Whiting burned; loss \$10,000; insured; will rebuild at once.

**Wis., Plattsville**—Wm. Eck and Chas. Barnes will erect cement block barns in spring.

**Wis., Rice Lake**—Dodge Brothers Motor Co. will erect a modern garage.

**Wis., Shawano**—C. C. Fritz, architect, Shawano, has prepared plans for a barn at the county asylum, 2-story, 42x150; cost \$5,000; frame; day work; electricity, tin roof; all modern barn fixtures wanted; address Aug. Hoefta, superintendent, asylum, Shawano.

**Wis., Sparta**—Ed. Jones will erect a basement barn in spring.

**Wis., Stockbridge**—John Schafer will build a new hip-roof modern barn, 40x68; spring work; Henry Thill of Stockbridge, will also erect barn.

## FIRE APPARATUS

**Minn., Blue Earth**—City council proposes to purchase a chemical fire engine; bids received Feb. 22, 8 p. m.; check 10 per cent; Easton Floe, city clerk.

**Minn., Faribault**—Councilman Lindenberg, superintendent, public building, recommended improvements and purchase of fire hose, requested by Chief Kelley.

**Minn., Little Falls**—Firemen's Relief association have voted to buy fire truck for city, to cost about \$5,500.

**Minn., Redwood Falls**—Fire department has recommended that Alderman John Whittet be appointed fire marshal. Proposition discussed for purchase of hose, and chemical apparatus for department.

**Mont., Butte**—Following bids were received on new automobile for fire department: Anderson Coupling & Supply Co., Kansas City, at \$4,100, with electric starter, \$4,225; Geo. C. Hale, of Kansas City, \$2,950; Sherman & Reed, Butte, \$5,300; Silver Bow Auto Co., Butte, \$6,233; Treasure State Auto Co., Butte, \$2,050; for 70 horsepower car, and \$3,080 for 55 horsepower car; James Boyd & Bro., Philadelphia, \$4,500; Butte Auto Co., four bids for cars, of various powers: \$3,685, \$3,005; \$2,905; and \$2,705.

**Mont., Butte**—Purchase of new fire service auto is being considered.

**Mont., Kalispell**—Volunteer fire department of city has recommended that C. D. O'Neill be elected as fire chief.

**Mont., Livingston**—City council has asked for bids for purchase of 4-cylinder chemical and hose combination truck. Proposition being discussed for installation of fire alarm system.

**Mont., Melrose**—Melrose has petitioned county commissioners for a fire company and apparatus.

**Wis., Deer Park**—Deer Park volunteer fire department has organized with 26 active members.

**Wis., Waukesha**—Fire company has decided to purchase fire equipments, bonds of \$4,000 to be issued soon; G. H. Daubner, city attorney.

### CONTRACTS AWARDED.

**Minn., Anoka**—Contract awarded to H. E. Wilcox Motor Co., for furnishing fire department with new truck.

woodwork, ornamental plaster, large sky lights and with semi-indirect light fixtures, wall and ceiling decorations in oil, reinforced concrete vault with massive vault doors, safety boxes, etc.; work to begin at once; entire cost, \$20,000.

**Neb., Omaha**—A 5-story building for the Western Newspaper Union and the Western Paper Co., will be erected by Geo. A. Joslyn, head of companies; cost about \$75,000; plans prepared by Architect John McDonald; 66x132, reinforced concrete; bids to be asked for this month; present building to be remodeled.

**S. D., Dallas**—Fire destroyed the warehouse and cream station of Edelstein Co.; loss about \$2,000; fully insured.

**S. D., Frankfort**—The James River Bank will erect a new bank building.

**S. D., Rapid City**—Fire destroyed the J. C. Haines department store, Pennington County State Bank, and Farlow block; loss about \$250,000.

**S. D., Ravinia**—The Andes State Bank, recently burned, will be re-built, brick.

**S. D., Spearfish**—M. A. Nicholas will erect a modern store building to replace one recently burned.

**Wis., Antigo**—Contract awarded to Albert Russ, Antigo, for solid brick store, office and theater building, 52x140, 2-story and basement.

**Wis., Athens**—Fire damaged harness shop of John Cole and other buildings, about \$15,000.

**Wis., Chilton**—Witzel & Rossmeissel shoe store burned; loss close to \$10,000.

**Wis., Chippewa Falls**—Warehouse of the Farmers Produce Co., burned, loss about \$4,000; insured at \$2,000.

**Wis., Chippewa Falls**—The Lumberman's National Bank will erect a modern bank building in the spring.

**Wis., Delavan**—The Dickerman Hardware Co. of East Troy, will erect a modern building, this year.

**Wis., Eau Claire**—The First National Bank will remodel and enlarge its building.

**Wis., Elmwood**—Fire damaged the J. Reinke hardware store about \$200.

**Wis., Green Bay**—Plans are being prepared for a 4-story brick building for Dr. R. C. Buchanan; cost about \$100,000.

**Wis., Hurley**—Fire damaged the dry goods store of Angelo Ferenta, about \$600.

**Wis., Menomonie**—First National Bank will remodel its building, contract awarded to the Phoenix Furniture Co., of Eau Claire; first story to be enclosed in Dunnville stone, new mahogany beam ceilings, Verde marble base, veined Italian marble wainscoting, bronze grille, ceramic tile, mahogany woodwork, indirect lighting system, modern throughout.

**Wis., Grantsburg**—The First National Bank will erect a modern bank building soon.

**Wis., Hawthorne**—Fire destroyed the Theide hotel and Efav store building; loss to hotel, \$4,000, insured; loss to store, \$4,000, insured.

**Wis., Marshfield**—W. H. Kamps will erect a 2-story modern business block.

**Wis., Milwaukee**—C. B. Lewis will erect a 3-story store and storage building; cost about \$37,000.

**Wis., Greeley**—The McCartney National Bank will erect a new building.

**Wis., Oshkosh**—Shoe store of Witzel & Rossmeissi burned, partly insured.

**Wis., Oshkosh**—Fire damaged the Witzel and Rossmeissel shoe store; loss \$10,000.

**Wis., Plainfield**—Fire destroyed the brick block of J. F. Walter.

**Wis., Plymouth**—M. Mueller will erect a 2-story business block; brick.

**Wis., Racine**—Pool hall and billiard room on 4th st. damaged by fire \$10,000.

**Wis., Rhinelander**—Gary & Danielson may erect a modern brick store building; D. H. Hart, may build a store building.

**Wis., Richland Center**—F. H. Pratt & Son will remodel building into a modern business place; spring work.

**Wis., Sheboygan**—Large addition will be built to the Kohler Bros. warehouse.

**Wis., Stanley**—A new bank building may be erected by the Citizens' State Bank; P. J. Congrove, president.

**Wis., St. Cloud**—Furniture store of A. E. Stuhl burned; loss about \$7,000; insured at about \$2,500.

**Wis., Superior**—Mrs. Albert Pearson will erect a \$2,000 store and dwelling; permit issued.

**Wis., Viola**—The State Bank of Viola is having plans prepared for erection of a bank building, 30x70, 2-story and basement. D. M. Hunter, vice president; C. R. Thompson, president.

**Wyo., Carlisle**—Plans are being made for erection of a

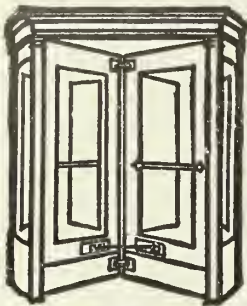
## BUSINESS BUILDINGS

**Iowa, Marshalltown**—N. K. Aranoff of Chicago, owner of site of building recently burned, will erect a modern store and office building, 40x125, brick, white glazed brick front, terra cotta finish, fireproof; cost about \$25,000.

**Minn., Two Harbors**—Contract awarded to A. Moorman & Co., St. Paul, for new bank building for Commercial State Bank; exterior front to be Port Entry stone with granite columns, bronze entrance doors, interior will have fixtures and wainscoting in Tavernelle marble, bronze finish, grille works, terrazzo floor with marble inlaid borders, mahogany



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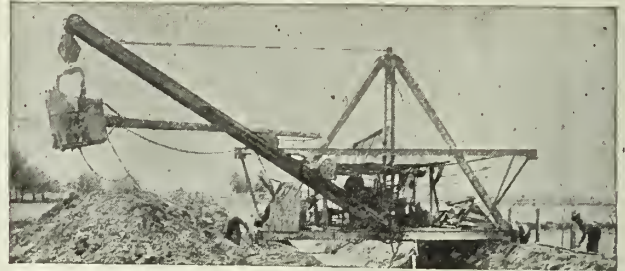
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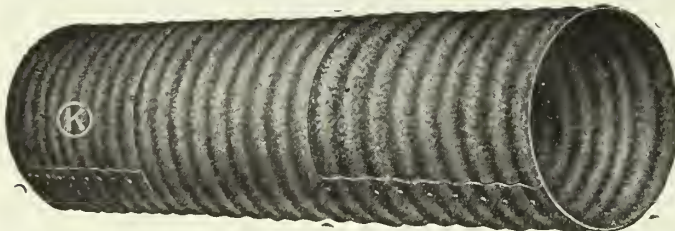
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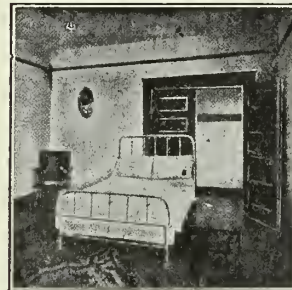
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modern store building in the spring by the Carlisle General Store Co.

**Wyo., Cheyenne**—Workmen are tearing down old frame building, preparatory to erecting a 2-story brick, modern business building for Senator Francis E. Warren. Spring work.

## STREET AND ROAD WORK

*Notes arranged alphabetically by States.*

**B. C., Victoria**—City expects to spend about \$300,000 for paving. Address city clerk.

**Iowa, Audubon**—Proposition carried at special election to appropriate funds for sewer work. Address city clerk.

**Iowa, Burlington**—City has large amount of paving in view; five blocks, 42 to 45 feet wide, on Division st.; 2,300 feet 30 feet wide, 4,800 feet 18 feet roadway, on Sumner st.; cement concrete; two blocks, 30 feet wide, on South st., cement concrete, artificial stone curb; and paving on Jefferson st.; all will be ordered in the early spring. H. J. Vollmer, city engineer, and W. C. Cross, mayor.

**Iowa, Clarinda**—Council is preparing to let contract for paving S. 13th and Grant sts., and also other streets. T. A. Wilson, city clerk.

**Iowa, Clarinda**—Expected bids will be called for in February for paving on several streets; either concrete or asphaltic concrete; address city clerk.

**Iowa, Corning**—F. W. Yeadon, auditor Adams county, writes that contract was not let Feb. 1, for the four cars of culvert pipe that was advertised for on that date.

**Iowa, Council Bluffs**—Letting of contracts for cement concrete pipe and bridge lumber was postponed until the meeting of the county board on Feb. 17. J. D. Hannan, auditor Pottawattamie county.

**Iowa, Des Moines**—Ten miles paving to cost \$600,000 has been ordered by city council; Horace Susong, city clerk.

**Iowa, Des Moines**—Hearing Feb. 24, on paving W. 3d st., with vitrified brick; curbing on 6th av., Woodland av., W. 34th st., and W. 11th st., and paving on Depot st., with vitrified brick; Horace Susong, city clerk; stated that 10 miles of paving will be done this year, amounting to \$600,000.

**Iowa, Ida Grove**—Expected that two of the principal streets of the city will be paved this year. Address city clerk.

**Iowa, Perry**—Hearing Feb. 23 on paving Sand Hill st. with concrete; Chas. Wilson, city engineer.

**Iowa, Sioux City**—Hearing Feb. 20 on paving Iowa st., 14th st. and W. Riverside av. Paul J. Wells, city clerk.

**Iowa, Tama**—Plans being prepared by Aetna Engineering Bureau, 17 N. La Salle st., Chicago, Ill., for 40,000 square yards paving. Address city clerk.

**Iowa, Washington**—Final action will be taken on paving various streets and avenues on Feb. 15 and bids called for soon after; concrete and brick. W. P. Rawn, city engineer.

**Minn., Red Wing**—City council will designate kind of material to be used for street paving on Feb. 19, petitions in the meantime to be circulated for choice between creosoted blocks and concrete. L. C. Meyer, city clerk.

**Minn., St. Paul**—Hearing March 7 for paving S. Wabasha, Congress, Winifred and Ohio sts., estimated to cost \$38,500. Hearing March 8 for paving Lexington av. from Summit to Carter av. at \$170,000, and also E. 7th st. from the bridge to Hope st., at \$28,000. Aug. Hohenstein, city purchasing agent.

**Minn., St. Paul**—Council decided to pave Congress, Concord and Isabel sts., between S. Robert and S. Wabasha sts., should be paved at an expense estimated to cost \$32,266; Aug. Hohenstein, purchasing agent.

**Minn., Virginia**—Total appropriation for road building and improvements in St. Louis county will be about \$500,000; Odin Halden, county auditor, Duluth.

**Minn., Virginia**—Council has ordered city engineer to prepare plans and specifications for paving certain alleys with concrete. A. E. Bickford, city clerk.

**Mont., Butte**—Hearing March 3 on big sewer system for south side; total estimated cost, \$130,400. Address city clerk.

**Mont., Helena**—City will pave Fuller av. this year from south boundary of G. N. park to the depot at approximate cost of \$13,000; address city clerk.

**Nebr., Broken Bow**—Special election Feb. 9 to vote on sewer bonds in sum of \$17,000. Address city clerk.

**Nebr., Collegeview**—Commercial club is again discussing the matter of paving, and propose that this be done from 14th and L sts. to 33d and S. Sheridan boulevard. Address city clerk.

**Nebr., Columbus**—This city is figuring on about \$100,000 worth of paving and will issue bonds to cover it and perhaps for other work. Address city clerk.

**Nebr., Columbus**—Council expected to advertise at once for city paving to the amount of from \$85,000 to \$112,000, depending on the kind of pavement selected; L. F. Gottschalk, special engineer.

**N. D., Fargo**—Paving is proposed for 1915 to the amount of 50,000 square yards; address city clerk.

**N. D., Jamestown**—The county board has asked for bids for the construction of the main road from Windsor to the west line of the county, estimated to be worth about \$8,000. Address county clerk.

**Ore., Bay City**—Contract to P. A. Sandberg, 407 Stanton av., Portland, Ore., for street improvements at \$33,362.

**Ore., Pendleton**—County commissioners are considering construction of 18 miles highway from German Hall to Springs Landing, at a cost of about \$15,000.

**Wash., Seattle**—Plans approved by board of public works for paving Railroad av. with brick and asphalt, and grading and filling Alki av., at a cost of \$120,000 and \$37,000 respectively. Address city clerk.

**Wash., Spokane**—J. M. Strack, county engineer, writes that bids will be called for about March 1 for grading and paving 16 feet wide the highway from Rockford to Waverly, 11.5 miles, costing about \$120,000; also, Dennison to Deer Park, four miles, costing about \$35,000. He states that without doubt these roads will be built of crushed rock base and with asphalt wearing surface.

**Wis., Beloit**—Board of public works ordered to prepare specifications for creosoted block, vitrified block, sheet asphalt, asphaltic concrete and reinforced concrete wearing surface, concrete foundation, on about 12,000 square yards. Address city clerk.

**Wis., Delavan**—Council has ordered paving and curbing of Racine st. from Ludwig to 8th, and Walworth av. from 8th to 7th st., and 7th st. from Walworth av. to main tracks of C. M. & St. P. Ry., and Walworth av. from Main st. to Terrace st. Address city clerk.

**Wis., Fond du Lac**—Hearing Feb. 11 on paving Johnson st., from Park av. to the Fond du Lac river, with reinforced pavement with concrete combined curb and gutter; J. F. Hohensee, city clerk.

**Wis., Fond du Lac**—Hearing Feb. 11 on grading and paving Western av., from Main to Brooks st.; brick on 5-inch concrete base, at same time, by grading and paving Western av. from Brooke st. to the Fond du Lac river, and Superior st. from Western av. to Military st.; granite, sand and cement surface on 5½-inch concrete base, and concrete combined curb and gutter under 5-year guarantee; J. F. Hohensee, city clerk.

**Wis., Fond du Lac**—Various petitions for sewers reported favorably by committee and board of public works authorized to make necessary arrangements to have the said sewers built. J. J. Breister, chairman committee.

**Wis., Janesville**—Bids will soon be advertised for to secure 75,000 gallons of road oil. C. V. Kerch, city engineer.

**Wis., Janesville**—Rock county board of supervisors has instructed highway committee to purchase a steam roller, an oil distributor and a revolving road sweeper; Howard W. Lee, county clerk.

**Wis., Merrill**—Council petitioned to change paving material on Center st. from brick to macadam. Address city clerk.

**Wis., New London**—Reported bids will be advertised for about Feb. 25 for 1½ miles tar macadam or tarvia paving; C. J. Thompson, city clerk.

**Wis., Oshkosh**—Hearing on March 8 on special plan for sewer in 10th st., and also for sewer in Evans st. R. H. Hollister, chairman board of public works.

**Wis., Prairie du Chien**—Plans in progress for 9,000 square yards paving, bids to be taken on various kinds. W. H. Turbitt, city clerk.

**Wis., Superior**—City commission ordered paving of 13th st. from Hammond to Grand, and 4th from Tower to Omaha railway property. F. C. Tomlinson, commissioner.

**Wis., Superior**—Bids for the improvement of Tower av. from 1st to 3d sts. have been filed as follows: Brick—Russell Construction Co., \$8,919; John Diffor, \$9,027; S. A. Riches, \$9,630; Magnus Peterson, \$9,637. Sandstone—John Diffor, \$10,753; S. A. Riches, \$11,362; Magnus Peterson, \$11,243; Russell Construction Co., \$11,127. Reinforced concrete—Russell Construction Co., gravel \$5,984, rock \$6,465; John Diffor, rock \$6,819; S. A. Riches, gravel \$6,619, rock, \$7,502; Baum & Jacobs, gravel \$6,539, rock \$7,221; Magnus Peterson, gravel, \$7,067.

**Wis., West End**—Council has ordered to improve Main st. by grading and paving; cement concrete. Address city clerk.

### BIDS WANTED.

**Iowa, Bloomfield**—Bids received by I. A. Peterson, auditor of Davis county, until 10 a. m., Feb. 15, for cement, sand, gravel, stone, lumber, piling, corrugated culvert pipe, plate





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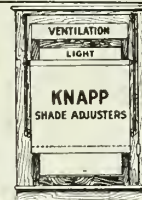
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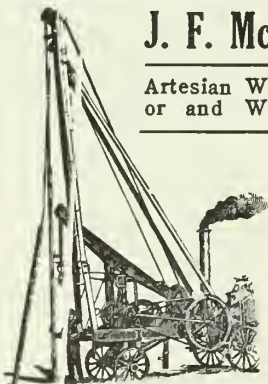
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**Minn., Eveleth**—City clerk has been authorized to advertise for bids for a new auto sprinkler and for 5 dump wagons to use on the streets; address city clerk.

**Minn., Little Falls**—Bids received by D. Rocheleau, committeeman, until 2 p. m., Feb. 24, for clearing and grubbing 4 miles of state road No. 3, in the town of Richardson.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, purchasing agent, until 3 p. m. Feb. 19, for approximately 800 tons of asphaltic cement for paving during 1915; check for \$250.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, purchasing agent, until 3 p. m., Feb. 9, for three street cleaners equipped with squeegee brooms; check for \$75.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., Feb. 22, for grading and improving of Arcade st., from Fremont to E. 4th st.; check for 10 per cent.

**Mont., Townsend**—Bids received by Wm. G. Ragen, county clerk, until 2 p. m., March 1, for grading, surfacing and ditching the following county roads: Contract No. 1, 5,788 feet; contract No. 2, 12,500 feet; No. 3, 9,233 feet; No. 4, 1,300 feet; No. 5, 1,800 feet; No. 6, 500 feet; No. 7, 26,422 feet; No. 8, labor for the construction of four small county bridges; No. 10 and No. 11, grading contracts; \$3,000 deposit required for a set of plans and check for 10 per cent of bid.

**Neb., Grand Island**—Bids received by H. E. Clifford, city clerk, until 8 p. m. Feb. 17, for sewer in district No. 44, and for extension of sewer main in Vine st., separate bids; check for 5 per cent.

**Neb., Lincoln**—Bids received by Theo. H. Berg, city clerk, until 2 p. m., Feb. 13, for paving in district No. 309, estimated to cost \$2,200; also, at same time, for paving in district No. 305, estimated to cost \$16,000.

**Ore., Portland**—Bids submitted for paving of E. 44th and E. 45th sts. were as follows: Warren Construction Co., gravel bitulithic, \$12,160; Giebisch & Joplin, gravel bitulithic, \$10,122; Montague O'Reilly Co., asphaltic concrete, \$9,552; Warren Construction Co., asphaltic concrete, \$11,566; Giebisch & Joplin, asphaltic concrete, \$10,107; Oregon Ind Paving Co., asphaltic concrete, \$10,140; Jeffery & Bufton, concrete, \$9,655; Heinecke Bros., concrete, \$9,998; Cochran Nutting Co., concrete, \$10,272; Oregon Hassam Paving Co., Hassam, \$9,988.

**Wash., Seattle**—Arthur P. Denton, county engineer, writes that bids will be called for about the first of March for grading 20 miles of road between Auburn and Enumclaw, etc., at a total cost of about \$150,000.

**Wash., Spokane**—Bids received early in February by county commissioners for improving 11½ miles Deer Park and 4 miles Waverly highway, at a cost of about \$150,000.

**Wis., Jefferson**—Bids received by board of public works (J. B. Brewer, mayor and chairman), until 1 p. m., Feb. 20, for improving Main, Milwaukee, 1st and Dodge sts., contractor to begin April 15, and complete work by June 26.

**Wis., Mt. Horeb**—Bids will be received about March 1 for 8,780 square yards concrete paving. Wm. G. Kirchoffer, engineer, Vrooman block, Madison, Wis. T. G. Lingard, city clerk.

#### CONTRACTS AWARDED.

**B. C., Kerrisdale**—Contract to Ledingham & Cooper for paving University av. up to 4½ per cent grade with concrete base and bituminous wearing surface; and to the Cotton Co., Limited, has been awarded contract for paving over 4½ per cent grade with concrete, but ultimately to have brick wearing surface.

**Iowa, Council Bluffs**—Contracts have been made by the county board as follows: Wheeler Bridge & Lumber Co., Des Moines, for 6,000 feet piling; American Casting Co., Birmingham, Ala., for cast iron pipe for culverts; Lana Construction Co., Council Bluffs, for sheet metal pipe for culverts.

**Iowa, Leon**—Contract to Western Boiler Pipe Co., Monmouth, Ill., for corrugated pipe, at \$827; other bidders were: Midland Metal Co., \$844; Iowa Pure Iron Culvert Co., \$990; Bowsher & Bowsher, Leon, Iowa, \$914; Russell-Grader Co., \$948; Iowa Culvert & Sheet Metal Co., \$909.

**Mo., Edina**—Contract to A. Jacks Co., Kansas City, Mo., for artificial stone curbing on both sides of Lafayette st.; Tuttle & Pike, engineers, Kansas City, Mo.

**Mont., Great Falls**—Contract to Fred Saner of Butte for concrete sidewalks and curbs for 1915.

**Ore., Portland**—Contract to Montague-O'Reilly Co. for asphaltic concrete on E. 45th st., at \$9,552.

**S. D., Sioux Falls**—Contract to C. H. Atkinson, Watertown, S. D., for paving Minnesota av. from 3d to 4th st., at \$1.43

per square yard; same, with asphaltic concrete on 21st st., from Phillips to Minnesota av., at \$1.61; same, with cement on 12th st., Phillips av. to 4th av., at \$1.69. Also to Fielding & Shepley, St. Paul, Minn., for paving Prairie av. from 1st to 3d st., with asphaltic concrete at \$1.59.

**Wash., Chehalis**—Contract to the Two Miracle Co., Kalispell, Mont., for paving the unfinished portion of Pacific highway, Chehalis to Centralia, at \$13,600. Other bidders were: Jacobson-Bade Co., Portland, Ore., \$13,831; W. F. Meisner, Seattle, Wash., \$14,100; Jarvis & Garvey, Seattle, Wash., \$14,437; M. D. Hogan, Hoquiam, Wash., \$14,446; T. B. Bidwell, Portland, Ore., \$14,536; Albers & Son, Chehalis, Wash., \$14,590.

**Wis., Sheboygan**—Contract to Sheboygan Construction Co. for 2,000 barrels of cement at \$1.76 delivered.

**Wis., Superior**—Contract to Magnus Peterson, city, for sewer in Nelson av. at \$8,318.

## BRIDGES

**Iowa, Pocahontas**—Buena Vista county recently sold \$21,000 bridge bonds to Geo. M. Bechtel & Co., of Davenport, Iowa.

**Kans., Valencia**—Plans are in progress by Engineer W. J. Arnold, Topeka, for bridge, one 40-foot "I" beam span, 16-foot roadway, concrete abutments. O. K. Swayze, clerk Shawnee county, Topeka.

**Minn., Pine City**—A new wagon bridge will be built on state road and will connect with 6th st. on south bank of Snake river.

**Minn., Rochester**—County auditor has been authorized to advertise for bids for steel on bridges Nos. 1622, 1623, 1626, 1627, 1628, 871 and 1442.

**N. D., Ypsilanti**—County commissioners have invited bids for a bridge, reinforced concrete and steel, 80-foot span; plans drawn by Mr. Atkinson, former state engineer.

**S. D., Bonesteel**—A government bridge will be erected at Ft. Randall over the Missouri river.

**Wis., Green Bay**—A special election to be held on day of spring election will be held to vote \$60,000 bridge bonds, for new bridge. Felix Biemeret, chairman bridge committee.

**Wis., Iron River**—A new bridge will be erected over Iron river at power house.

**Wis., Two Rivers**—Council has ordered plan prepared for repair and improvement of Washington st. bridge.

#### BIDS WANTED.

**Iowa, Keokuk**—Bids received until Feb. 16, 10 a. m., for following bridge material: 10,000 feet 2½-inch by 12-foot white oak, delivered at Wever bridge, 5,000 feet 2½-inch by 12-foot white oak, delivered at Augusta bridge, and 12,800 feet 2½-inch by 12-foot white oak, delivered at Bridgeport bridge; 8 to 12 inches wide; check for 5 per cent. For further information address board of supervisors of Lee and Des Moines counties. A. P. Meyer, auditor Lee county.

**Iowa, Osage**—Bids received until 12 noon, Feb. 16, for corrugated culverts, Mitchell county; check for 5 per cent. A. W. Swanson, county auditor.

**Iowa, Waverly**—Bids received until 1:30 p. m., Feb. 15, for five bridges; plans at office of County Auditor W. H. Poekels; check for 5 per cent; bridges Nos. 1267, 1857, 438, 1900, 1363; f. o. b. at Waverly, Tripoli, Sumner, Readlyn, Denver and Plainfield; bids also received at same time and place for corrugated culverts.

**Kans., Liberal**—Bids received until Feb. 23, 12 noon, for two wooden pile bridges over Cimarron river; check for \$50; plans at office of clerk, Seward county, or with state engineer, Manhattan county.

**Minn., Walker**—Bids received until Feb. 13, 10:30 p. m., for following bridges and culverts in Cass county, on judicial ditch No. 2, Hubbard, Cass and Wadena counties: 5 bridges, timber at \$320 per bridge; 4 corrugated metal culverts, 18-inch diameter, \$3 per lineal foot; 6 corrugated metal culverts, 48-inch diameter, at \$6 per lineal foot; 3 corrugated metal culverts, 72-inch diameter at \$7.50 per lineal foot; total \$33,028; C. D. Bacon, auditor, Cass county.

**Minn., Winona**—Bids received until 8 p. m. March 1, for reinforced concrete park bridge on parkway across Lake Winona; plans by L. P. Wolff, consulting engineer, 1000 Germania Life building, St. Paul, on file at office of engineer, and secretary park board, F. J. Bell; certified check, \$750. Official advertisement in the Improvement Bulletin this week.

**Minn., Winona**—Bids received until Feb. 23 for sale of \$90,000 bonds for Wisconsin approaches to high wagon bridge over Mississippi river here.

**Mont., Townsend**—Bids received until 2 p. m., March 1, by Wm. G. Ragen, county clerk, for four small county bridges, on county roads; check for 10 per cent.

**Neb., Blair**—Bids received until Feb. 23, for all bridges, cul-



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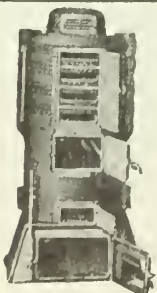
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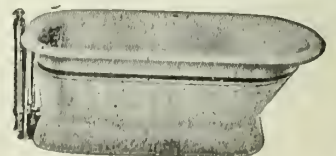


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verts and approaches for 1915, Washington county; certified check \$200; Ove T. Anderson, county clerk.

**Neb., Nelson**—Bids received until March 3, for all bridges in Nickolls county, for 1915; also state bridge west of Superior; for information address county clerk; E. E. Hedgwick, Nelson; official advertisement in the Improvement Bulletin this week.

**N. D., Ashley**—Bids received until 2 p. m., Feb. 16, for metal culverts for 1915, in McIntosh county: 6 metal culverts, 36-inch diameter, 20 feet long, 14-gauge; 6 metal culverts, 24-inch diameter, 20 feet long, 14-gauge; 24 metal culverts, 18-inch diameter, 20 feet long, 16-inch gauge; 48 metal culverts, 12-inch diameter, 20 feet long, 16-inch gauge; check \$500; John Hildenbrand, auditor.

**N. D., Cando**—Bids received until Feb. 24, 9 a. m., for all metal road culverts for 1915, in Towner county. F. F. Vaughan, county auditor.

**N. D., Grand Forks**—Bids received until 4 p. m. Feb. 23, for rebuilding of portion of bridge over Red River of the North, on DeMerces av., plans by M. B. Stone, Minneapolis, Minn., engineer, and J. J. Smith, city engineer, Grand Forks, N. D., plans at offices of engineers; check \$1,000. W. H. Alexander, county auditor, Grand Forks; official advertisement in the Improvement Bulletin this week.

**N. D., Grand Forks**—Bids received until March 3, 10 a. m., for all steel and concrete bridges in county during 1915, Grand Forks county. Plans with county auditor, Hans Anderson. Check for \$500.

**N. D., Grand Forks**—Bids will be received until Feb. 23 for bridge across Red River, between city and East Grand Forks; steel with iron rails; cost about \$4,200; completed cost, \$11,010.

**S. D., Tyndall**—Bids received until 2 p. m., March 2, all bridges in Homme county, in 1915, either of concrete, steel or pile construction; check, \$1,000; at same time and place bids will be received for corrugated iron culverts and metal for 1915; check \$300. J. J. Maus, county auditor.

**Wis., Shawano**—Bids received until Feb. 23, 3 p. m., for skewed plate girder span with concrete abutments over Mill creek, town of Red Springs; 60 feet by 16 feet. M. W. Torkelson, Madison, state bridge engineer. O. C. Rollman, county commissioner.

#### CONTRACTS AWARDED.

**Iowa, Des Moines**—Contracts awarded to the Dennison-Partridge Co. of Newton, for third and fourth districts and Wheeler Co. of Des Moines, for \$10,000 worth of lumber, for spring bridge work.

**Iowa, Logan**—Contracts awarded as follows on bridge materials: Cast iron pipe, American Casting Co., at \$1,085; corrugated metal pipes, Lana Construction Co., \$4,938; Wilson Concrete Co., for culvert material, \$1,159; Clinton Bridge Co., reinforcement bars, cost \$652; local company, contract for cement at \$1,150.

**Iowa, Marshalltown**—Contracts awarded to Wheeler Lumber, Bridge & Supply Co., of Des Moines for county bridge lumber for 1915; supervisors will meet Feb. 13, to let contract for metal culvert pipe.

**Iowa, Nevada**—Contract for entire 193 bridges in Story county awarded to P. N. Kingsley, of Strawberry Point, at \$34,827.

**Minn., International Falls**—Contract awarded to the Illinois Steel Co. for steel and concrete bridge over Little Fork in Harrington county at cost of \$5,590.

**S. D., Bison**—Contract awarded to the Canton Bridge Co., Canton, Ohio, for bridges. Ila Benjamin, county auditor.

**S. D., Wheeler**—Contract awarded to Klauer Mfg. Co., Dubuque, Iowa, for galvanized corrugated culverts for 1915.

**S. D., Wheeler**—Contract awarded to Standard Bridge Co., Omaha, Neb., for 1/4-inch steel culverts.

**Wis., Chippewa Falls**—Contract awarded to the Iowa Bridge Co. for laying of creosote block floor on Chippewa Falls bridge and painting, at \$8,200 for flooring and \$720 for painting.

**Wis., Spooner**—Contract awarded to Worden-Allen Co., Milwaukee, for plate girder span bridge over Yellow river at River st., at \$3,647.

**Wis., Superior**—Contract awarded to John Shea, contractor, for approach to Bardon av. bridge, at \$1,094.

**Kans., Pratt**—Plans are being prepared by E. T. Archer & Co., New England building, aKnsas City, Mo., for addition to waterworks plant. M. P. Jones, city clerk.

**Iowa, Muscatine**—About 30 blocks of water mains will be laid here the coming summer, William Moils, superintendent water board.

**Minn., Brainerd**—New water supply system is being considered by city, water and light board.

**Minn., Buffalo Center**—Special election will be held Feb. 16, to vote on \$7,000 bonds for water works extension; also to vote \$10,000 electric light and water plant at Elmore, (P. O.).

**Mont., Phillipsburg**—The Phillipsburg Water Co. plans to construct a wood stave pipe to replace portion of line now equipped with box flume.

**Mont., Philipsburg**—Council is considering proposition to supply the city with water works system and sell bonds; address Mayor Smith.

**Wis., Oshkosh**—City will spend \$40,000 for improvements to water works plant soon; artesian wells or filter system proposed; Ber. J. Daly, chairman, executive committee.

#### BIDS WANTED.

**Minn., Albany**—Bids received until 8 p. m., Feb. 10, for drilling and necessary casing of well in village; check \$500; Thomas Tamasek; officially advertised in the Improvement Bulletin this week.

**Minn., New Ulm**—Bids received until March 2, 5 p. m., for deep well pump head, including all electrical apparatus, etc., plans at office of A. J. Mueller, superintendent, E. L. & W. W. department, and city engineer, F. D. Minium; check 10 per cent; Wm. Backer, city clerk; official advertisement in the Improvement Bulletin this week.

**Wis., Cameron**—Bids received until Feb. 26, 7 p. m., for an 8-inch tubular well; W. W. Pieper, village clerk.

**Wis., Oconomowoc**—Bids received until Feb. 17, 1 p. m., for water mains, and appurtenances; about 2,200 feet 4-inch water mains; check 5 per cent; plans at office of city clerk, City Hall, Clarence H. Schoenke.

#### CONTRACTS AWARDED.

**Iowa, Sioux City**—Contract awarded to the United States Cast Iron Foundry Co., for 1,700 tons of cast iron for city water works.

**Minn., Duluth**—Contract awarded to John Hedberg, for 6-inch water and 4-inch gas main, in 9th st.; also 6-inch water and 4-inch gas main in 24th av. extension, at \$949.

**Minn., St. Cloud**—Contract awarded to James Clough & Sons, of Chicago, at \$257, for pipes and supplies for water works department.

**Wis., Oshkosh**—Contract awarded to Globe Pump Co., of Green Bay, to install pumping system to supply water from 300-foot artesian well for the county sanatorium.

### DRAINAGE AND IRRIGATION

**Iowa, Eldora**—Bids in Feb. 12, on drainage district 22; Calvin Boylan, auditor, Hardin county.

**Iowa, Estherville**—Bids received until 12 m., Feb. 17, for repairing D. D. 26, about 11,300 cubic yards, 864 feet 24-inch tile, catch basin, bulk head, 5,300 feet 24-inch tile; in lateral 4; 4 intakes; tile bids f. o. b. Gridley, or Maple Hill; check 10 per cent; bond for 25 per cent; C. A. Root, auditor.

**Iowa, Mondamin**—Hearing Feb. 25, on proposed Steer Creek ditch; J. M. Albertson, auditor.

**Iowa, Rockwell City**—Hearing March 2, on joint district 51; R. B. Dixon, auditor.

**Minn., Blue Earth**—Final hearing postponed until April 30, on county ditch 25; J. L. Herring, auditor.

**Minn., Blue Earth**—Final hearing on county ditch 27, April 16.

**Minn., Breckenridge**—Bids received until 10 a. m., Feb. 16, by county board on county ditch 15; estimated cost, \$4,923; check 10 per cent; P. E. Truax, county auditor, Wilkin county.

**Minn., Mankato**—Contract awarded to G. E. Gilbertson, St. James, Minn., for construction of county ditch 30, near Mapleton, at \$42,000, low bid among seven.

**Minn., Moorhead**—Signatures have been secured on a petition for a drainage ditch west of city by County Agent P. E. Clement.

**Minn., New Ulm**—Hearing Feb. 26, on petition for county ditch 21; L. G. Vogel, auditor, Brown county.

**Minn., Olivia**—Bids in next Tuesday Feb. 16, 10 a. m., on county ditch 57; estimated cost \$13,120; J. D. Johnson, auditor, Renville county.

**Minn., Ortonville**—Bids received until 3:30 p. m., Feb. 17, for county ditch 41, estimated cost \$8,733; A. G. Shogren, auditor, Lac qui Parle county.



### WATER WORKS



**Iowa, Ft. Madison**—Plans have been made for waterworks system, Edgar L. Street, president of Ft. Madison Water Co., has submitted figure to Mayor Brown.

**Iowa, Marcus**—Special election will soon be called to vote water works system.



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**Minn., Thief River Falls**—Bid of Northern Construction Co. awarded contract for judicial ditch 40, was \$998; Minneapolis Bridge Co., \$1,050; Iowa Bridge Co., \$1,220.

**Minn., Walker**—Estimates for judicial ditch 2, bids to be in 10:30 a. m., Feb. 13, include: excavation, \$29,096, 5 timber bridges, \$1,600; 43 acres clearing, \$384, leveling roadway, 4 miles, \$537; 4 corrugated metal culverts, 18-inch, \$2 per foot, \$240; 6 corrugated culverts, 48-inch, \$6 per foot, \$720; 3 corrugated culverts, 72-inch, \$7.50 per foot, \$450; total \$33,028; check 10 per cent, E. B. Willard, engineer, Old Capitol, St. Paul; C. D. Bacon, auditor, Cass county.

**Minn., Windom**—Bids received on judicial ditch 12, B. H. Banman, awarded, \$3,390; S. P. Thompson, Heron Lake, \$3,475; W. H. Selmon, Lakefield, Minn., \$3,498; Max Sorenson, Windom, \$3,599; Redding & Smaage, Windom, \$3,956; C. W. Gove, engineer, Windom.

**Wash., N. Yakima**—Bids received until 10 a. m., Feb. 26, for 22 miles open ditch by commission of Yakima county; enlarged drainage improvement district No. 2; 540,678 yards excavation; back filling 6 miles closed drain, concrete and wooden structures, payments in bonds; plans with engineer, North Yakima, and deputy engineer, Sunnyside; check 10 per cent.

**Wis., Clintonville**—Contract awarded by Matteson town board, to Ajax Dredge Co., Glencoe, Buffalo county, R. F. D., Arcadia, Wis., for Matteson drain ditch.

## SEWER WORK

**B. C., Oak Bay**—Reported the city is considering construction of sewers to cost about \$30,000. Address city clerk.

**B. C., Vernon**—Sewage disposal plant and under drainage system contemplated at cost of from \$90,000 to \$150,000. Address city clerk.

**Iowa, Burlington**—Ghahn st. sewer and branches will probably be ordered Feb. 18; about 2 miles of 8 to 36-inch pipe, 29 manholes and 17 lamp holes. H. G. Vollmer, city engineer; W. C. Cross, mayor.

**Iowa, Cedar Rapids**—Additional sanitary sewers in the residence district, are being considered; address city clerk.

**Iowa, Des Moines**—Rights-of-way being procured from property owners for proposed close creek gravity sewer system, 22 miles long, 8 to 24-inch pipe. Horace Susong, city clerk.

**Iowa, Keokuk**—A sewer extension of 150 feet into the park will be ordered from the 15th st. sewer; 4x5 concrete arch sewer. J. F. Winters, engineer; W. S. Moorehouse, mayor.

**Iowa, Malvern**—A new sewer will be constructed on Marion av.; address city clerk.

**Iowa, Mason City**—Resolution of necessity being published providing for improving the Lime Creek sewer; J. H. McEwen, city clerk.

**Iowa, Sioux City**—The North Riverside Improvement Association has been formed to push proposition for sewers in N. Riverside; definite action probable soon; address city clerk.

**Iowa, Wall Lake**—A surveyor will be employed to investigate the feasibility, cost, etc., of a city sewer system; address city clerk.

**Minn., Blue Earth**—Hearing Feb. 15, on construction of two branches to the sewer system on Main st., Easton Floe, city clerk.

**Minn., Duluth**—Property owners adjoining 66th alley between Polk and Raleigh sts., West Duluth, have filed petition for sanitary sewer in the alley; Roderick Murchison, commissioner in charge.

**Minn., Duluth**—Roderick Murchison, commissioner, has directed that sewers be constructed in Albion st., also in 60th alley, west from Huntington st. to Tacony st., and that sewer connections be made in 9th st. from 7th av. east to 14th av. east.

**Minn., Virginia**—Plans and specifications for the sewer to connect up the 6-foot sewer with the North Side sewer have been filed by City Engineer Johnson; pipe is from 15 to 36 inches and cost will be about \$2,264.

**Mont., Billings**—Engineer Renshaw, city, will have plans ready soon for proposed sewer system. Address city clerk.

**Mont., Helena**—Sanitary sewers are proposed on the West Side to the amount of \$12,000, and in the 6th ward to the amount of \$15,000; J. D. McLeod, city engineer.

**Mont., Roundup**—Plans for city sewer system presented to the council by Engineer Renshaw have been adopted and work on the construction will begin in the spring. Address city clerk. Estimated cost, about \$24,000.

**Neb., Norfolk**—Election will be called for bonds for storm sewers, to cost \$11,000; address city clerk.

**Neb., Omaha**—Commissioner McGovern plans to build the Miller park sewer north from Crown Point av. to the north limit of Miller park, to cost about \$62,000.

**N. D., Lidgerwood**—Reported bids will be asked for on construction of a sewer extension, but date of closing not announced; work to be done in the spring. Address city clerk.

**S. D., Howard**—City has voted \$24,000 to pay for sewer work; address city clerk; bids probably called for soon.

**S. D., Watertown**—City commission expect to submit plan to voters at election this spring for \$40,000 expenditure for sewer system; voters last year rejected plan for \$80,000 improvement. Address city clerk.

**Wash., Anacortes**—Council has authorized lateral sewer in alley, etc., estimated to cost \$3,222. Address city clerk.

**Wash., McMinnville**—Hearing Feb. 12 for sewers on Balm st., estimated cost \$12,500, and for trunk storm sewer on B. st., etc., estimated to cost \$3,326.

**Wis., Beaver Dam**—Plans being prepared by C. P. Parsons, Watertown, for sewer system. Address city clerk.

**Wis., De Pere**—Committee on sewers instructed to procure plans for a sewer in the alley near Western Steel & Iron works, and that bids be advertised for to have the sewer put in. E. W. Janssen, city clerk.

**Wis., Manitowoc**—Petition filed for sewer for surface drainage on Huron st.; address city clerk.

**Wis., Maryville**—Plans for sanitary sewer to be built in early spring maturing. Charles Mann, mayor.

**Wis., New London**—Plans in progress for sewer; 8 to 18-inch vitrified pipe. C. J. Thompson, city clerk.

**Wis., Oshkosh**—Plan of board of public works for sewer in 5th av., from Sawyer to Fox river, has been adopted; Dan Witzel, city clerk.

**Wis., Oshkosh**—No objections were offered at the public hearing to the plan for a sewer in 7th av. and the work will be carried out as proposed; address city clerk.

**Wis., Superior**—City commission has authorized sewer in Central park, between W. 6th and 7th sts., and P and R avs.; R. E. McKeague, city clerk.

**Wis., Wausau**—Board of public works submitted report estimating cost of public sewer in Blake av. from High st. to the Rapids Drive at \$2,114; address city clerk.

### BIDS WANTED.

**N. D., Dickinson**—Bids received by J. L. Hughes, auditor of Stark county, until 2 p. m., Feb. 15, for metal culverts, 20 feet long and 12 to 42 inches in diameter; check for \$500.

**S. D., Sisseton**—Bids received by Carston Eggen, city auditor, until 2:30 p. m., March 2, for sewer system and sewage treatment tank, requiring 6,330 feet of 15-inch sewer pipe, 180 feet 12-inch, 3,245 feet 10-inch, and a large amount of 8-inch, all of vitrified tile; also 78 manholes, 7 flush tanks and 7 lamp holes, complete; check for 5 per cent. Plans on deposit of \$5. Dakota Engineering Co., Mitchell, S. D.

**Wis., Milwaukee**—Bids received by J. H. Fowles, secretary, public sewerage commission, until Feb. 24, for intercepting sewers on both sides of Milwaukee river; extensive work; check for \$38,500 on contract No. 9 and \$25,000 on No. 10.

**Wis., Oconomowoc**—Bids received by H. A. Ernst, chairman, board public works, until 1 p. m., Feb. 17, for approximately 3,900 lineal feet 8-inch sewer pipe and 8 manholes in construction of sanitary sewers; check for 5 per cent.

### CONTRACTS AWARDED.

**Iowa, Council Bluffs**—Contract to E. A. Wickham & Co. for lateral sewers on avenues C, E and F, at 20c per lineal foot for 6-inch pipe, 35c for 8-inch, 40c for 10-inch, 45c for 12-inch, 45c for 15-inch; manholes at \$25 each, complete; other bidders were Lana Construction Co. and C. B. Reynolds, both city.

**Minn., Minneapolis**—Contract to Sioux City Brick & Tile Co., Sioux City, Iowa, for 1,300,000 common sewer brick at \$7.75 f. o. b. cars Minneapolis. Other bidders were: Hydraulic Pressed Brick Co., city, at \$9.50; Wisconsin Red Pressed Brick Co., city, \$9.50; G. L. Rose, city, \$8.50.

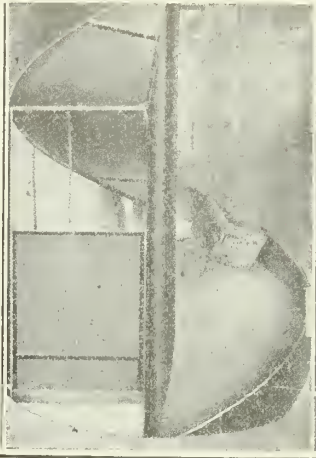
**Ore., Portland**—Contract to Wm. Lind for Willow st. extension of E. Stark st. trunk sewer, reinforced concrete pipe, at \$148,639.

**Sask., Regina**—Contract to Winnipeg Ceiling & Roofing Co., Winnipeg, Man., for 35,000 square feet corrugated siding and roofing for filter bed at city sewage disposal works. Contract for steel roof trusses for same building, 128x168, to Hamilton Bridge Works, Hamilton, Ont.

**S. D., Mitchell**—Contract to Aiken Construction Co., Fargo, N. D., for alley sewers at \$12,611.

**Wis., Racine**—Contract to E. R. Harding Co., city, for constructing 21st st. trunk sewer at \$86,822; work comprises 3,522 feet 66-inch brick at \$11.90; 1,178 60-inch brick at \$9.90; 578 feet 54-inch brick at \$9.60; 1,353 feet 36-inch brick at \$5.65; 624 feet 30-inch brick at \$3.10; 327 feet 27-inch brick at \$2.60; 328 feet 18-inch pipe at \$1.50; 26 manholes at \$59 each; 33 catchbasins at \$40 each; outfall, \$8,100; subcontracts are offered for piling and building cofferdam into Lake Michigan.





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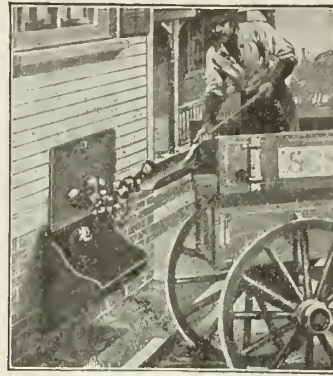
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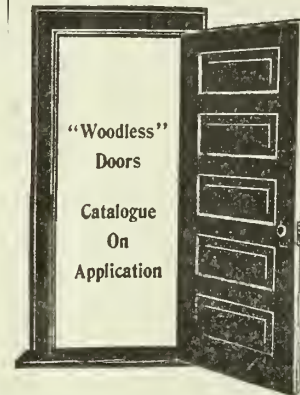
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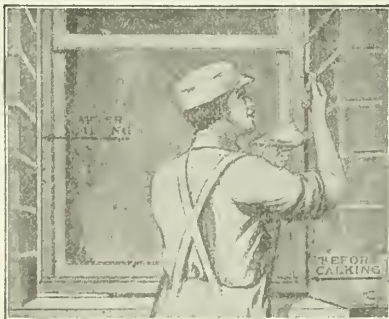


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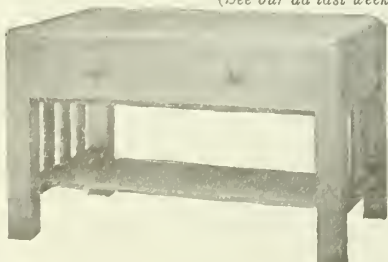
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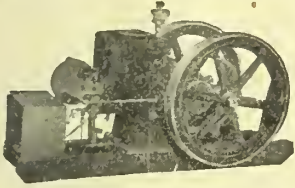
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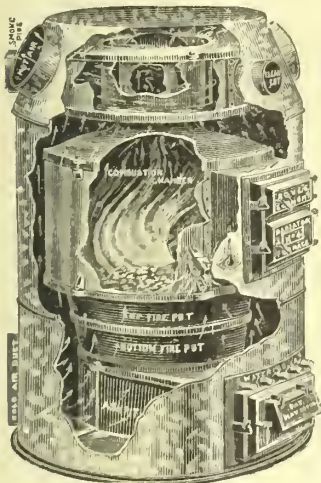
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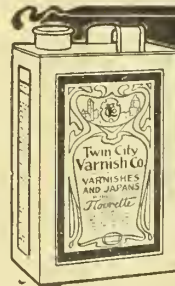
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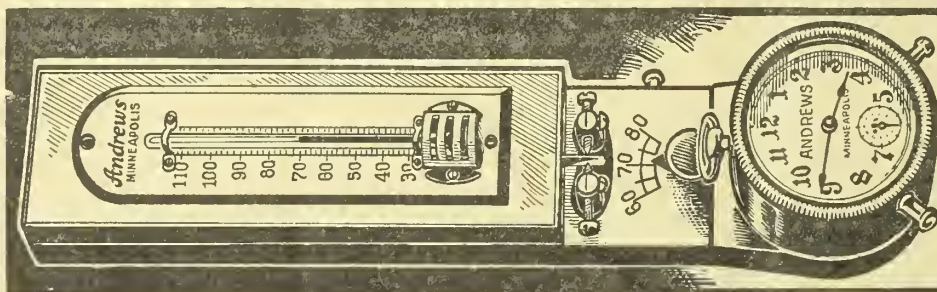
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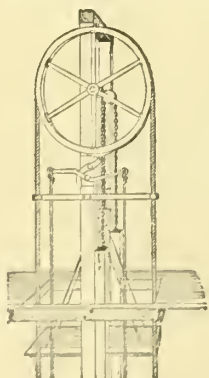
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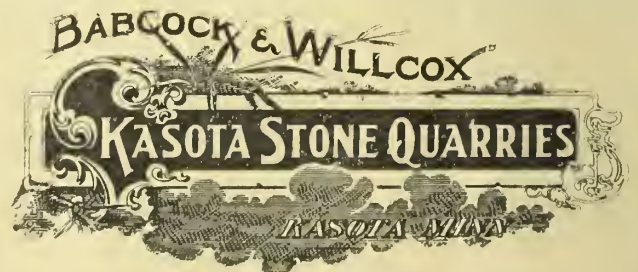
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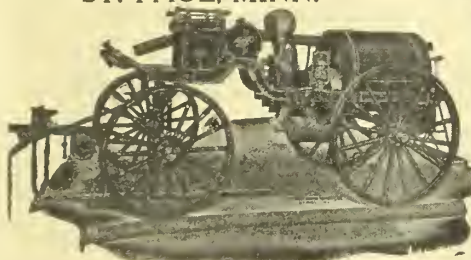
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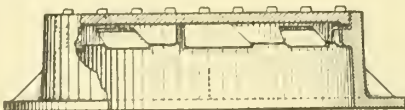
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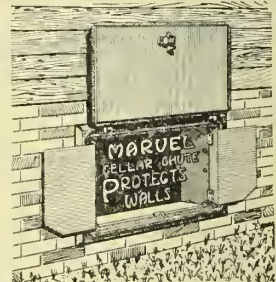
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., February 20, 1915.

Number 12

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**BANKS.**  
Northwestern National Bk., Mpls., Minn.

**BANK AND STORE FIXTURES.**  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Fixture & Cabinet Co., Minneapolis, Minn.

**BOILERS.**  
Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
Mechanical Specialty Co., Minneapolis, Minn.

**BONDS-SURF.**  
Hood & Matschke Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.

**BRASS GOODS.**  
National Mfg. & Supply Co., Mpls., Minn.

**BRICK AND TILE.**  
American Brick & Tile Co., Mason City, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Boone Brick, Tile & Paving Co., Boone, Ia.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Excelsior Brick Co., Menomonie, Wis.  
Flint Brick Co., Des Moines, Ia.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hebron Fire & Pressed Brick Co., Hebron, N. D.  
Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Lehigh Sewer Pipe & Tile Co., Fort Dodge, Iowa  
Mason City Brick & Tile Co., Mason City, Ia.  
Rufus P. Morton, Princeton, Minn.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.  
Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Sioux City Brick & Tile Works, Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

**BRIDGES.**  
American Bridge Co., Minneapolis, Minn.  
Clinton Bridge Works, Clinton, Ia.  
Corrugated Bar Co., St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**BUCKETS-CONTRACTORS.**  
H. B. Jones, Security Bank, Minneapolis  
G. E. Ingersoll & Co., St. Paul, Minn.

**BUILDING MATERIAL.**  
Raxter Sash & Door Co., Duluth, Minn.  
Biesanz Stone Co., Winona, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul  
Scott-Graft Lumber Co., Duluth, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Northland Pine Co., Minneapolis, Minn.  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**BUILDERS' SPECIALTIES.**  
Dunlop, Moore Co., Duluth, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Palme & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
G. A. Turner, Minneapolis, Minn.

**CALKING PASTE.**  
Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.

**CEMENT.**  
Atlas Portland Cement Co., Minneapolis  
Carney's Cement Works, Mankato, Minn.  
Fowler & Pay, Mpls. and Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
N. W. States Portland Cement Co., Mason City, Iowa  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speaks Lime & Cement Co., Superior, Wis.  
Northland Pine Co., Minneapolis, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Universal Portland Cement Co., Minneapolis

**CELLS-STEEL.**  
Crown Iron Works Co., Minneapolis

Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**CEILINGS, STEEL.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Bergner Mfg. Co., Minneapolis, Minn.  
Canton Steel Ceiling Co., Minneapolis, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis  
H. C. Thomas & Bro., La Crosse, Wis.

**CEMENT FILLER.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**COAL CHUTES.**  
American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**COLD STORAGE PLANTS.**  
Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.

**CONCRETE CONSTRUCTION.**  
Avery Steel & Iron Co., Minneapolis  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

**CONTRACTORS LEVELS AND SUPPLIES.**  
David White Co., Milwaukee, Wis.

**CONCRETE MACHINERY.**  
Atlas Engineering Co., Milwaukee, Wis.  
Badger Concrete Mixer Co., Milwaukee, Wis.  
Bragstad Concrete Mach. Co., Canton, S. D.  
Cement Tile Machinery Co., Waterloo, Ia.  
Chain Belt Co., Milwaukee, Wis.  
Contractors Machinery Co., Keokuk, Iowa  
G. E. Ingersoll & Co., St. Paul, Minn.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
The Lansing Co., Minneapolis, Minn.  
N. W. Concrete Steel Co., Minneapolis  
Raymer Hardware Co., St. Paul, Minn.  
N. W. Steel & Iron Works, Eau Claire, Wis.  
The T. L. Smith Co., Milwaukee, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.  
Waterloo Cement Machinery Co., Waterloo, Iowa  
Ellis Woolman, Minneapolis, Minn.  
E. Wege Concrete Machinery Co., La Crosse, Wis.

**CONCRETE REINFORCING BARS.**  
Avery Steel & Iron Co., Minneapolis  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**CORNICES.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Bergner Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

**CORRUGATED IRON, ETC.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Avery Steel & Iron Co., Minneapolis  
Bergner Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.

**CONCRETE REINFORCING.**  
Bergner Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

**CONTRACTORS SUPPLIES AND MACHINERY.**  
Decker Hardware Co., St. Paul, Minn.  
Mertes Machinery Co., Milwaukee, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Ellis Woolman, Minneapolis, Minn.

**CULVERTS.**  
Bergner Mfg. Co., Minneapolis, Minn.  
Piesanz Stone Co., Winona, Minn.  
Gallon Iron Works, Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.

**CRUSHED STONE.**  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.  
Minneapolis, Minn.

**DEADENING MATERIAL.**  
Cement Tile Machinery Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

**DECORATIONS.**  
Edin J. Oyen, La Crosse, Wis.

**DITCHING MACHINES.**  
Bay City Dredge Works, Bay City, Mich.  
United Iron Works, Springfield, Mo.

**DREDGES.**  
Bay City Dredge Works, Bay City, Mich.

**ELECTRICAL ENGINEERING.**  
Beck Electrical Construction Company, Minneapolis, Minn.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

**ELECTRIC MOTORS AND SUPPLIES.**  
Beck Electrical Construction Company, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

**ELEVATORS AND ENCLOSURES.**  
Kimball Bros. Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.  
Frank A. Pigeon, Minneapolis, Minn.

**ELEVATOR CABS.**  
N. W. Fixture & Cabinet Co., Mpls., Minn.

**ENGINEERS.**  
Oscar Claussen Engineering Co., St. Paul, Minn.  
Walter H. Flood, Chicago, Ill.  
Lewis A. Larson, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

**EXCAVATORS.**  
Bay City Dredge Works, Bay City, Mich.

**FIRE ESCAPES.**  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.  
Davenport Mach. & Fdy. Co., Davenport, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**FIRE HYDRANTS.**  
Waterous Engine Works Co., St. Paul, Minn.

**FIREPROOF DOORING.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Thorp Fireproof Door Co., Minneapolis, Minn.

**FLUE LINING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Lime Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

**FIRE PROTECTION APPARATUS.**  
Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

**FIREPROOFING DOORS AND SHUTTERS.**  
Haakinson & Beatty Co., Sioux City, Iowa  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

**FLOORING.**  
American Torgoment Flooring Co., Minneapolis, Minn.  
Minnesota Transfer, Minn.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Fama Stonewood Co., Minneapolis  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graft Lumber Co., Duluth, Minn.  
Northland Pine Co., Minneapolis, Minn.  
I. Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.

**FURNACES.**  
Bovee Furnace Works, Waterloo, Iowa  
Gibson Mfg. Co., Waterloo, Iowa

**FURRING.**  
Corrugated Bar Co., St. Paul, Minn.

**GAS AND ELECTRICAL FIXTURES.**  
Jerdee & Hendrickson, Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

**GLASS.**  
American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

**GRAVITY CARRIER.**  
Minnesota Manufacturers' Association, North St. Paul, Minn.

**GREENHOUSES AND GLASS STRUCTURES.**  
W. H. Lutton Co., Minneapolis, Minn.

**HARDWARE TRIMMINGS.**  
Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

**HEAT REGULATORS.**  
Andrews Heating Co., Minneapolis, Minn.

**HEATING AND VENTILATING.**  
Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

**HOISTS.**  
H. W. Johns-Manville Co., Minneapolis  
Koehring Machine Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**HOSE.**  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Waterous Engine Works Co., St. Paul, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can be found by referring to the Alphabetical List of Advertisers

## INSULATING MATERIAL.

Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

## INSURANCE.

Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....  
.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
Des Moines Structural Steel Works.....  
.....Des Moines, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenreiter Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
.....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
.....Davenport, Ia.

Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....  
.....St. Paul, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co.....Chicago, Ill.

## LIME.

General Western Material Co.....Waterloo, Ia.  
Powell & Fay.....Mpls. and Mankato, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Landers-Morrison-Christenson Co.....  
.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....  
.....St. Paul, Minn.

Speakes Lime & Cement Co.....Superior, Wis.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

## MANTELS—GRATES.

Drake Marble & Tile Co.....  
.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....  
.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating  
Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
W. S. Nott Company.....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co.....Minneapolis  
Badger Steel Roofing & Corrugating Co.....  
.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation.....Iowa City, Iowa

Standard Salt & Cement Co.....Duluth, Minn.

## MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis  
Builders Iron Works Co.....  
.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Davenport Machine & Foundry Co.....  
.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....  
.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis  
Jacksonson Mineral Paint Works.....  
.....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co.....New York, N. Y.

## PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

## PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PLASTER—WALL.

General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## PLASTERING—ORNAMENTAL.

Monarch Co.....St. Paul, Minn.  
Roy Curtis.....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co.....Minneapolis, Minn.

## PLASTIC ORNAMENTS.

Monarch Co.....St. Paul, Minn.

## PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis

## PLUMBING AND HEATING JOBBERS.

## POWER PLANTS.

National Mfg. & Supply Co.....Mpls., Minn.

## REVOLVING DOORS.

Van Kannel Revolving Door Co.....  
.....St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works.....Minneapolis, Minn.

## ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
.....St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.  
Seibner-Libby Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

Selden Roofing & Manufacturing Co.....  
.....Minneapolis, Minn.

## ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....  
.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Duluth Corrugating & Roofing Co.....  
.....Duluth, Minn.

Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....  
.....Minneapolis, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornamental  
Co.....St. Paul, Minn.

N. W. Roofing, Cornice & Stamping  
Works.....Minneapolis, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co.....  
.....La Crosse, Wis.

Barrett Mfg. Co.....New York, N. Y.  
Biesanz Stone Co.....Winona, Minn.

Corrugated Bar Co.....St. Paul, Minn.  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.

John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## ROOFING AND SIDING—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....  
.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis

## SAND AND GRAVEL.

Humboldt Sand & Gravel Co.....Humboldt, Ia.  
Mason City Sand & Gravel Co.....  
.....Mason City, Ia.

## SHINGLES—RUBBER.

W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co.....Winona, Minn.  
General Western Material Co.....Waterloo, Ia.

Standard Salt & Cement Co.....Duluth, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co.....Duluth, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.  
Northland Pine Co.....Minneapolis, Minn.

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co.....Sioux City, Iowa  
Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.  
Lehigh Sewer Pipe & Tile Co.....  
.....Fort Dodge, Iowa

## SHADE ADJUSTERS.

Wm. J. Work.....St. Paul, Minn.

## SHEETS—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....  
.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.  
Avery Steel & Iron Co.....Minneapolis

Crown Iron Works Co.....Minneapolis  
Berger Mfg. Co.....Minneapolis, Minn.  
General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa  
K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Haakinson & Beatty Co.....Sioux City, Iowa  
Peerless Marble & Tile Co.....Minneapolis

Twin City Tile & Marble Co.....Minneapolis,  
.....SKYLIGHTS.

Badger Steel Roofing & Corrugating  
Co.....La Crosse, Wis.

Haakinson & Beatty Co.....Sioux City, Iowa  
Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co.....  
.....St. Paul, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co.....Minneapolis  
W. S. Nott Company.....Minneapolis, Minn.

## STEEL—BARS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.

Twin City Tile & Marble Co.....Mpls., Minn.

## STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.

Breen Stone Co.....St. Paul, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.

Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.

Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.

Sauk Rapids Granite Co.....  
.....Sauk Rapids, Minn.

Wm. Penn Stone Co.....Minneapolis, Minn.  
The Wellen Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## TANKS—WOOD.

Twin City Tank, Silo & Specialty Co.....  
.....Minneapolis, Minn.

## TERRA COTTA.

Belt Line Brick Co.....Mpls. and St. Paul  
General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.

Johnson, Jackson & Corning.....  
.....Minneapolis and St. Paul, Minn.

K. F. Lott & Co.....Minneapolis and St. Paul, Minn.

## THEATER EQUIPMENT.

The Monarch Co.....St. Paul, Minn.

TILE—CLAY—PARTITION AND FLOOR.  
Hydraulic Press Brick Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.

Twin City Varnish Co.....St. Paul, Minn.

## VALVES.

Crane Co.....Minneapolis, Minn.  
Crane & Ordway.....St. Paul, Minn.

Mechanical Specialty Co.....St. Paul, Minn.

## VENTILATING SYSTEMS.

Arcx Company.....Chicago, Ill.  
Hackney Ventilating Co.....Minneapolis, Minn.

J. C. Kernchen.....Chicago, Ill.  
G. A. Turner.....Minneapolis, Minn.

## WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

## WATERPROOFING.

General Western Material Co.....Waterloo, Ia.  
Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

## WATER TOWERS. STEEL.

American Bridge Co.....Minneapolis, Minn.

## WATER WORKS EQUIPMENT.

Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

## WIRE AND IRON WORKS.

Minneapolis Steel & Machinery Co.....  
.....St. Paul, Minn.

## WOODWORKING MACHINES.

St. Paul Foundry Co.....St. Paul, Minn.

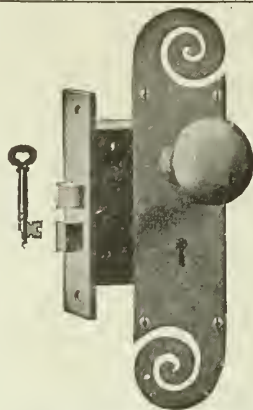


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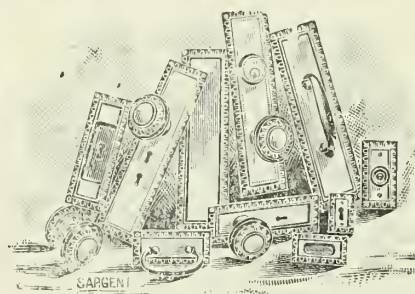


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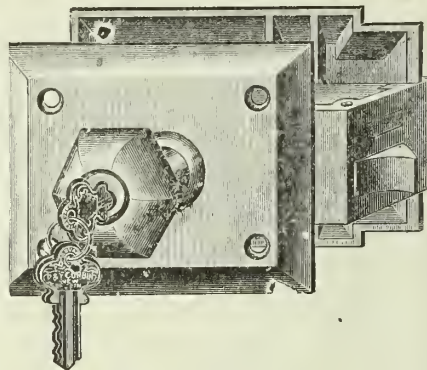
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, FEBRUARY 20, 1915

NUMBER 12

## EDITORIAL

O. L. COLBURN, Editor

### COPPER COMPANY WILL SPEND \$6,000,000.

Anaconda and Great Falls, Montana, will benefit by the decision of the Anaconda Copper Mining Company to spend \$6,000,000 for improvements. About \$4,000,000 will be spent in Anaconda. The recent definite announcement was made after a day's conference between Wallace N. Tanner, supervising engineer, Frederic Laist, metallurgical manager, both of Anaconda, with the officials in charge of the Boston & Montana institution. For the prosecution of the work at least 300 men will be employed, and most of these will be chosen from the ranks of former employees at the smelter.

The buildings to be erected are an electrolytic and a furnace refinery. The former will be 225 feet by 390 feet, and the latter will be 135 feet by 200 feet, one story. Both structures will be of reinforced concrete, brick-faced. The brick will be made at the company's plant near the smelter, and all outside material has already been ordered. The new departments are to be ready for operation January 1, 1916, and their operation will double the output of refined copper the plant now has.

The refinery at Great Falls will have a capacity of 10,000,000 pounds of copper a month. It will replace the old refinery, which has not been in operation for years. The new leaching plant at Anaconda which will be operated on tailings which have accumulated during the past years to such an extent that about 15 million tons are available for retreatment, is nearing completion, and will probably be started early in April. It will treat from 2,000 to 2,500 tons per day of tailings containing from 13 to 14 pounds of copper per ton, and will make from 600,000 to 700,000 pounds of copper per month at low cost. The supply of tailings for this plant is sufficient to keep it in operation for a period of about 20 years.

The new acid plant is also nearing completion and will be able to make somewhat over 100 tons of acid per day. This acid will be used in the leaching plant and in the new flotation plants.

The company has much experimental work under way along various lines, which may in the course of a few years lead to the establishment of other important lines of industry at Anaconda and other points.

### FLOORS FOR BRIDGES.

Expert opinion favors two elements of bridge floors: a sub floor as permanent as the bridge structure, and a surface selected with a view chiefly to cost of maintenance. In speaking or writing of bridges these days the engineer seldom or never has in mind the wooden structure.

Clifford Older, bridge engineer for the Illinois highway commission, believes that 90% of all highway bridges in the country have wood floors. For wearing surfaces, brick, concrete, creosoted blocks, macadam, gravel, mixtures of bituminous materials, with sand, gravel or stone, and other materials are used, but in recommending any of these Mr. Older is careful. He does say, though, that the lighter the floor, the more it costs. In saying this he has the life, and the cost of renewal in mind. Plank floors seem to last, on the average, about three and a half years.

A point brought out by Mr. Older, is that it is desirable to have the surface floor of a bridge the same as the surface of the road. This simplifies maintenance and avoids depressions at each end of the bridge.

Many interesting facts and opinions by experts were developed by the papers and discussions at the American Road Builders' convention, fully recorded in Good Roads; and careful reading of the detailed talks on bridge floors should benefit city and county officials.

### BUILDERS AND THE LEGISLATURE.

Minnesota lawmakers are proposing a number of changes of interest to architects and builders. Prominent on the list of bills is the one introduced by the senator from St. Cloud (Sullivan), providing the state with the luxury of a state architect who would not have to give all his time to the state's work. He would receive \$5,000 for what he did do, viz., furnish all the plans for all the buildings built by the state. For assistance the bill provides two draftsmen at \$1,800; and a stenographer at \$1,200 (to write all the specifications). Chas. H. Johnston, now employs a dozen or more draftsmen on state work.

Senator Sullivan has again introduced a bill requiring Minnesota stone to be used by the state in its buildings. This is being done, it seems, by the state board of control, when the cost is about the same as for stone from elsewhere.

The house appropriations committee favored \$57,000 for a woman's prison at Stillwater; and after a hearing on the bill for \$150,000 for a sixth normal school at Bemidji, laid the matter over till March 9.

### NOTES OF THE WEEK.

Duluth defeated the proposition to build a municipal light plant, and thus ended a hot fight against the Duluth-Edison Company. The issue distinctly was municipal ownership. An incident of the warfare was an offer by the city commission, of \$1,107,940 for the Duluth-Edison plant. This valuation was placed upon it by experts, Charles L. Pillsbury of Minneapolis, and Walter B. Rittenhouse, engaged to do this work by the city. The efforts of the public ownership advocates cost the city a large amount of money, including the election and the expensive appraisement. There is a great difference between the restless desire of enthusiastic leaders of Socialistic activities, and a sharp demand from the people, acting on their own good common sense, for relief from unquestionably bad service, and high rates.

An important decision was handed down in district court when Judge Fesler signed an order sustaining a demurrer to the injunctive action against the St. Louis county board seeking to restrain the county commissioners from proceeding with the sale of bonds issued for the purpose of financing the construction of the Duluth-St. Vincent road. An appeal will be taken to the supreme court. By sustaining the demurrer Judge Fesler holds that counties are invested by law with authority to issue, without a special election, bonds to finance the construction of state rural highways built under the Elwell law. The question has frequently been raised by attorneys for bonding companies which have refused to handle the bonds, but has never been put up to the court before. In order to clear up legal difficulties which have been a stumbling block for bonding companies and have made it thus far practically impossible to sell the bonds, it was decided to make a test case of an instance in this county. At the present time about ten or twelve counties in Minnesota are experiencing difficulties of a similar nature in disposing of bonds issued by the county board under the same law. They will be unable to dispose of their bonds until the supreme court has given a ruling.

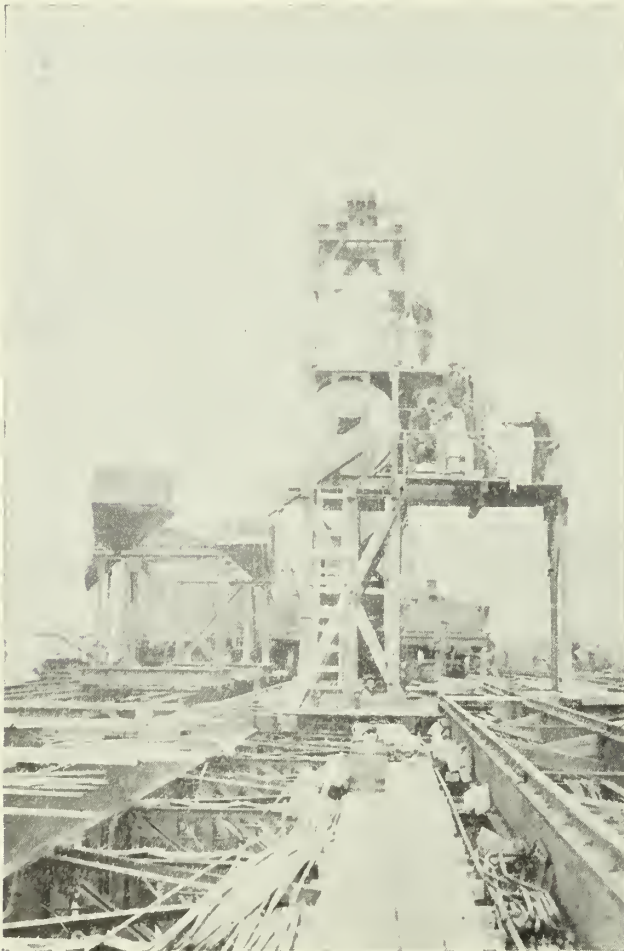
It costs to put a senator off from a train in the mud and rain where a station ought to be in Wisconsin. The member of the upper house at Madison, who found no shelter when he got off at Merrillan has caused an order to be issued directing the Onaha to build a shed 400 feet long between the tracks of the main line and the Marshfield branch. And this is not the end. Fairchild, Wis., residents say the situation is the same there with traffic just as heavy, and they are looking and hoping for a senator, or maybe a governor to be dropped off there in nasty weather. It would not be surprising to find all railroad employees in Wisconsin carrying booklets of pictures of all the state officials, so as to be ready with umbrellas and rubbers when a state official has to get off in the rain.



# CONCRETE WORK ON POCKETS OF THE DULUTH, MISSABE & NORTHERN RAILWAY DOCK NO. 5 AT DULUTH, MINNESOTA.

The work consists of making concrete pocket bottoms, concrete pocket partition walls and a concrete deck for the new Duluth, Missabe & Northern Ry. Co.'s ore dock No. 5 at Duluth, Minn. The dock proper is 2,304 feet long divided into 192 double pockets, each 12 feet wide and about 34 inches deep. Each double pocket will hold over 600 tons of iron ore. The total concrete amounts to about 17,200 cubic yards, reinforced with 110,000 pounds of steel. The bottoms are 9 inches thick, the partitions 12 inches and the deck 8 inches;

has had very hard wear, but so far we have never been delayed on account of breakage or mixer troubles. Twice the discharge chute had to be replaced and three links had to be replaced, but considering the hours and amount run, this is a very small item. I have never seen a mixer that has proved so satisfactory in all ways as the Chain Belt.—Whitney Brothers, Stack & Co., of Duluth, have the contract for this work.



CONCRETE PLANT ON THE DOCK.

consequently the form work is considerable for the amount of concrete and the area covered is so spread out that the daily output is much less than the capacity of the mixer used.

The method of concreting is simple and well adapted to this form of work. The mixer is elevated about 13 feet above the deck of the dock, and a tower runs from the foundation up to the mixer. Three of the pockets were finished at the start, one for cement, one for sand and one for rock. The sand and rock are delivered in bottom dump ore cars, and are dumped into the pockets. The cement is delivered in bulk and is shoveled into the pocket spouts, with gates at the lower end, carry the material to the bottom of the tower where it is proportioned, the sand and rock by measurement and the cement by weight. A special Lakewood skip hoists the material to the mixer, which is a one-yard Chain Belt mixer. The concrete is discharged into concrete cars and run on the standard gauge track to the forms and dumped in place.

A report on the works says:

The average daily output for the past two months has been about 255 cubic yards a day of 20 hours. The maximum run has been 213 yards in 7 hours but the mixer could easily handle twice this if the concrete could be taken away. We have been running about 32 cubic feet per batch, and the mixer could handle at least 2 cubic feet more. The mixer



DOCK PROPER, HALF MILE LONG.

## CARNEY'S CEMENT PLANT IS ENLARGED.

The Carney's Cement Co., manufacturers of Carney's cement used for the brick mortar of much of the largest and most important buildings in the United States, is now making extensive improvements in the plant in the way of alterations and additional buildings. Their warehouse storage capacity is being increased to three times its former size, and will hold 75,000 barrels of cement, which will make it possible for the company to operate to full capacity through the entire twelve months of the year. The warehouses will be filled during the quiet winter months in order to take care of the large demand for this material during the building season which now exceeds the output of the plant. The kiln capacity is also being increased to prevent a repetition of conditions last season when the company found it impossible to give every shipment prompt service.

Another improvement being made is the installation of a complete steam power plant for use in operating the mill machinery, should anything interfere with the company obtaining electric power, which they are now using throughout the entire plant. This serves as a safeguard against possible delay at a time when it might be disastrous.

Carney's cement has two qualities that have made it famous for brick mortar—one, that it is sufficiently slow-setting and smooth-working under the trowel to make it work to advantage without lime added to it, and the other is that it never fails to produce a bond that becomes as hard as paving brick. The use of Carney's cement now extends over an unlimited territory, covering the entire United States.

## BREEN STONE CO. REORGANIZED.

A great many people in the building field will be interested to learn that the Breen Stone Co. has been reorganized. This company operated for years a quarry at Kasota, Minn., and built up an extensive exterior stone business. For the last eight years the company furnished a polished product. The business reorganized will be carried on the same as in the past. This company is the producer of the famous Kasota pink and yellow marble and has a complete plant for the working and finishing of this material.

R. D. Fawcett, who has been with the company for a number of years, has purchased an interest in the company and will have charge of their St. Paul office, 504 Ryan building. They are desirous of submitting prices to all who are or may be in the market for materials in their line, and plans sent for figures will be promptly estimated and returned. They are also interested in one of the Mankato quarries, and could furnish Mankato stone either in the rough or for exterior or interior finish.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

The Northwestern Steel & Iron Works, Eau Claire, Wis., have issued catalogue No. 9 describing cone batch mixers, hand mixers, hoists, towers, block machines, etc., products produced by the Northwestern.

Delegates returning from the annual meeting of the National Builders' Exchange association report a highly successful meeting and big increase in membership to forty-two exchanges with 8,000 members. Only thirty builders' exchanges in the United States are not now members.

The Iowa State Drainage association will hold their annual convention at Webster City, Iowa, Feb. 25th and 26th. M. P. Costelloe of Ames, Iowa, secretary; H. M. Sparboe, Webster City, Iowa, president. Program of proposed meeting will be mailed upon request of secretary.

Railroad construction for the Wisconsin & Northern, out of Crandon, Wis., just starting, has filled the hotels of the town with people interested in contracts. The colony there recently included: Peter Nelson, H. F. Wharton, Chas. Larson, Chas. Lind, Nels Benson, Victor Carlson and Oscar Carlson, Minneapolis; R. A. Small, F. J. Anderson, St. Paul, and L. Higgins, Fairbury, Nebraska.

Roy Thomas, who recently received the contract to remodel the 3rd st. bridge, Faribault, was formerly in the firm of Thomas & Thonet, contractors.

Minnesota hardware dealers will hold their annual convention, Feb. 23-26 in St. Paul; sessions at the auditorium. S. D. Works, insurance commissioner of Minnesota, will address the delegates Feb. 25. M. L. Corey, secretary of the National Retail Hardware association, will speak at the executive session, Feb. 23. The hardware exposition in the Auditorium will be extensive. The North Dakota Hardware association is meeting this week at Fargo. The South Dakota association will meet March 2-5. The Iowa dealers are meeting this week at Des Moines. At the St. Paul hardware exposition the exhibitors will include: Crane-Ordway Co., Minneapolis Heat Regulator Co., St. Paul Roofing & Cornice Co., Plant Rubber Co., Minneapolis, Twin City Varnish Co., U. S. Register Co., Minneapolis.

The Prenderville Brick & Terra Cotta Company, Limited, has been incorporated, with head office at Calgary, Alta., and capital stock of \$500,000.

Concrete Pile Standards," is the title of pamphlet issued and written by Hunley Abbott, 11 Pine st., New York. It includes standard details for pile caps, standard specifications for concrete piles, concrete and wooden piles compared and ways to test concrete piles.

St. Paul city commission has decided that contractors who are awarded work must sign contracts within ten days or lose them.

A. P. Lindstrom & Son, contractors, Winthrop, Minn., has been dissolved.

The best meeting of the Brown County Contractors and Builders' association was that held at the Blackstone hotel, Green Bay, Wis., Feb. 6. Sixty members of the association, architects and others were at the banquet tables. President George F. Reeke presided as toastmaster. The value of the organization was impressed upon the minds of the members by the president during his opening remarks. Mr. Walsh of Carr & Walsh, and Mr. Williams of Anderson & Williams, firm of architects, were among the speakers. Fred Hurlbut, building supplies, also spoke. John Larimer, of the Universal Portland Cement company, and Engineer Dolan, of the same company, talked on the topic of the newest uses for cement. After the speaking the contractors united in singing "Columbia," and other patriotic airs with an Edison playing.

The Wisconsin Retail Hardware Men's association elected officers: President, F. G. Reinhold, Milwaukee; vice president, J. B. Pierce, Brodhead; secretary and treasurer, P. J. Jacobs, Stevens Point; executive committee, T. C. Wood, Rhinelander; A. J. Strang, Richland Center; delegates to the national convention, F. G. Reinhold, Milwaukee; E. H. Ramm, New Lisbon; P. J. Jacobs, Stevens Point; B. L. Walter, Green Bay; Arthur Heins, Tigerton; A. A. Jacobs, Delavan; H. L. McNamara, Janesville; H. E. Tulling, Menasha; William Maples, Sturgeon Bay; C. J. Kuebler, Viroqua, and Edward Dittman, La Crosse.

The annual meeting of the Saskatoon Builders' Exchange was held in the Board of Trade offices, Saskatoon, with a large attendance. The election of officers for 1915 resulted as follows: President, James Preil; first vice president, A. W. Cassidy; second vice president, Thomas E. Farley;

honorary treasurer, Andrew Rutherford; secretary, Maurice E. Pout. Board of directors: General contractors, D. Smith, E. Bigelow, J. P. O'Leary, A. G. Sangster; sanitary and heating engineers, Neil Beaton; electricians, Wesley Forbes; sheet metal workers, A. L. Charlebois; builders' supplies, J. A. MacKenzie; hardware, S. E. Fawcett; mill work, F. M. Beatty; lumber, H. L. Martin; sand and gravel, R. B. McLeod. Thus for the fourth year in succession Mr. Priel has been elected president of the exchange.

"The outlook for church work is bright," writes A. F. Wasielewski, contractor, of Tulsa, Oklahoma, formerly of Minneapolis. He has finished nearly \$300,000 worth of church, apartment and hotel work in Tulsa and is building three churches in Ohio, to cost about \$150,000.

Iowa Highway Commission recommends drainage districts for draining county roads.

Daniel B. Luten, of Indianapolis, inventor of the Luten concrete bridge, spoke to the engineering students at the University of Washington last week, and later gave an illustrated lecture before the county engineers of Washington in convention assembled at Chehalis.

Secretary James P. Keenan's compilation of the proceedings of the Northwestern Road congress at Milwaukee last October is being distributed. It is a complete record of papers and discussions.

### ARCHITECTS AND ENGINEERS.

E. D. Litchfield, architect, New York, who furnished plans for the public library St. Paul, is taking time by the forelock in North Dakota. He has sent two designs to Bismarck for a new capitol. State Auditor Carl Jorgenson has them on file. Mr. Litchfield stated in a letter with the drawings that he was ready to go to Bismarck and talk it over. A capitol commission bill has been introduced in the North Dakota house by Representative Williams.

A. J. Shannon, architect, Devils Lake, N. D., is in Chicago where the Cement Show is the big magnet this week. Mr. Shannon was a caller in the Twin Cities en route.

E. P. Parsons, city engineer of Evansville, Wis., is making a survey to re-establish Lake Leota. He will estimate the cost of a dam.

North Dakota engineers elected F. L. Anders, Fargo, president; J. W. Bliss, state engineer, first vice president; J. A. Ingram, Grand Forks, second vice president; E. F. Chandler, Grand Forks, secretary. The meeting was held at Minot. The briquet plant of the Northern Co. was inspected. An exhibition of drawings by Robert Stacey-Judd, architect, of Minot, was viewed by the engineers.

A new firm of architects which will maintain offices in Virginia, Minn., and Duluth is announced in the joining of C. K. Shand of Virginia with W. T. Bray of the Zenith City. Mr. Bray has until recently been of the firm of Bray & Neystrom, which has been dissolved. The name of the new firm will be Bray & Shand. Bray will have charge of the Duluth office and Shand of the Virginia office. Mr. Shand has been in business in Virginia several years. Mr. Bray is one of the best known architects at the head of the lakes.

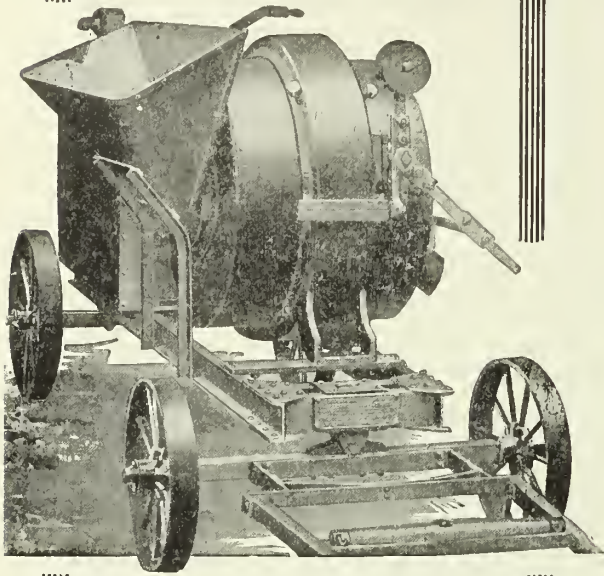
Robertson & Partners, Limited, has been incorporated, with head office at Vancouver, B. C., and a capital stock of \$50,000, to carry on business as civil, mechanical and electrical engineers and contractors.

There has been a change in the firm name of J. H. Jeffers & Company, architects, Mason City, Iowa, to the name Jeffers & Broaten, architects, Mason City. The new firm will continue business in the same offices, 615 and 616 First National Bank building, Mason City, where they will be pleased to receive catalogues, etc.

Frederick Powell, mining engineer, Seattle, presented a paper Saturday evening, January 30, 1915, before the Puget Sound section of the American Institute of Mining Engineers, on the subject of "Bull Dredging in Alaska." The paper was accompanied with diagrams and photographs.

Program of the Iowa Engineering society annual meeting, Iowa City, this week (Feb. 17-19): "Verticle Fibre Brick Paving," J. S. Tucker, University of Oklahoma; "Testing and Grading of Concrete Aggregates," R. W. Crum; "City Planning," Nelson P. Lewis and R. F. Weirick; report of committee on sanitary engineering; "Degree of Purification Desirable and Practicable in Sewage Treatment Plants in Iowa," Lafayette Higgins; "Choosing the Curvature of a Concrete Arch," B. J. Lambert; "The Air Lift for Deep Well Pumping," A. H. Ford, and "Engineering, a Profession," W. H. Kimball.



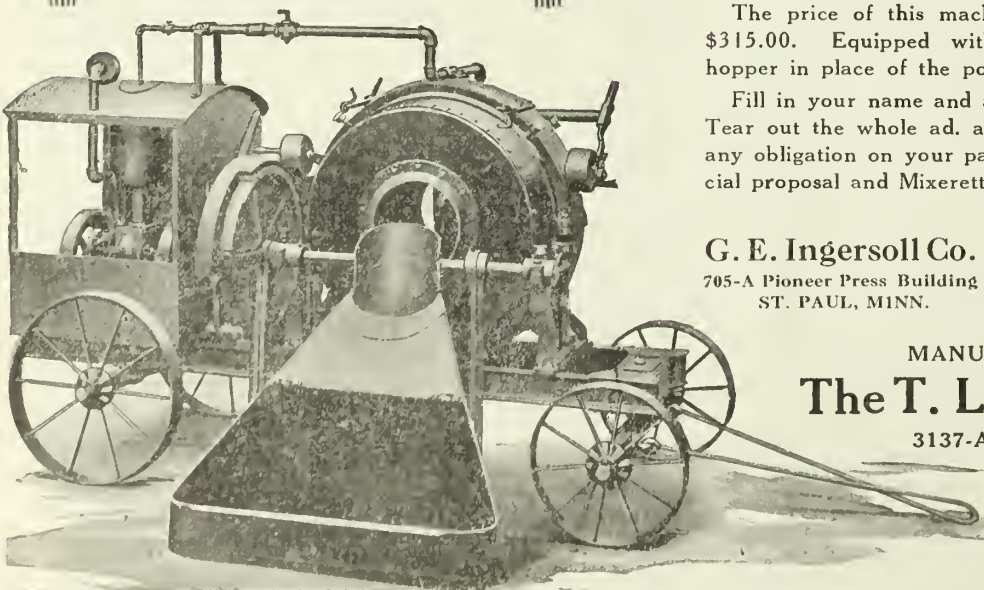


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This machine has two improvements which are bound to make it famous. The main drive ring and driving pinion are entirely enclosed and protected against dirt and dust. The big gear ring encircling the drum fits snugly into the outer casing, the machined surfaces forming a perfectly true sliding bearing. A constant supply of grease keeps this bearing clean and cool at all times.

The other big feature is the "rope-less" power loader. Being gear driven, the skip lifts quickly and smoothly. Having no hoisting cable or sheaves, the twisting, jerking motion common to loaders of the pivot type, is entirely eliminated.

The price of this machine, as illustrated, is only \$315.00. Equipped with low-down, gated batch hopper in place of the power charger, \$246.00.

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Items marked with asterisks not in Daily Sheets.

### Building Permits.

P. H. Phillips, 4728 S. Aldrich av., 2-story plaster veneer dwl.; address owner.....	4,100
Smith Sash & Door Co., 131 E. Lake st., 2-story frame addition to storehouse; S. J. Davis, builder; address owner, 305 S. 5th .....	1,500
Carl Bjorklund, 1919 Lincoln st. NE., 1½-story frame dwl.; Magnus Peterson, builder; address owner.....	2,000
I. L. Cheney and Chris. Bieri, 2920 27th av. S., 1-story concrete block addition, also cellar; address owner, 2920 27th av. S. ....	1,300
Philip E. Peterson, 1341 N. Russell av., 1½-story plaster veneer dwl.; address owner, 3218 N. 6th.....	2,000
L. L. Chadwick, 3943 2d av. S., 1½-story frame dwl.; address owner, 112 E. Lake.....	3,000
C. G. Wentworth, 16 Oak Grove st., 3-story brick apartments (24); address owner, 100 Metropolitan Life building.....	38,000
L. V. Forsyth, 2709 Longfellow av., 1-story frame dwl.; F. O. Baker, builder; address owner.....	1,500
B. W. Smith, 112-14 E. Lake st., 1-story frame addition to warehouse, new store front; address owner, 845-47 McKnight building .....	1,000
A. P. Goodman, 3616 Minnehaha av., 1-story plaster veneer addition to store; address owner, 3016 Minnehaha av.....	1,000
Mrs. Mary E. Gage, 4713 Oakland av., 1½-story frame dwl.; Chas. J. Christianson, builder; address builder, 4612 Park av. ....	2,200
Conklin & Zonne Co., agents, 302-04-06 Hennepin av., repairs after fire; James Leck & Co., builders; address builder, 527 Marquette av. ....	2,000
Bickelhaupt & Fuller, 1401-03 Hennepin av., alterations and repairs; John Ryan, builder; address builder.....	1,050
Minneapolis Brewing Co., 1301 N. Washington av., change of store front; Wm. Siegmann, builder; address builder....	1,000
Northwestern Hospital, Chicago av. and 27th st., finish attic for rooms in the "Nurses' Home"; H. N. Leighton Co., builders; address owner, Chicago av. and 27th st.....	3,500
Mrs. Mary Larson, 2930 Buchanan st. NE., 1-story frame dwl.; address owner, 1711 E. Lake.....	1,000
Marian D. Burt, 215 S. 8th st., repairs after fire; address owner, 3437 Pillsbury av.....	1,000
Mrs. Christina N. Robinson, 3236 20th av. S., concrete block foundation, 1-story frame addition to dwl.; address owner, 4609 Lyndale av. S.....	1,200
A. J. Melgren, 4300 Snelling av., finish dwl.; address owner, 1045 1st av. N.....	1,600
E. C. Carlton and N. H. Weltzin, 3958-60 Minnehaha av., 1-story frame moving picture theater; N. H. Weltzin, builder; 3011 27th av. S.....	5,000
Chas. G. Johnson and Bror Vitalis, lessees, 121 S. Washington av., alterations, change store into moving picture theater; Victor Bjorklund, builder; address owner, 121 S. Washington av. ....	3,000
Douglas A. Fiske, 76-78-80 S. 8th st., 1-story brick store; James Leck Co., builders; address owner, 525 N. Y. Life bldg. ....	8,500
Chas. A. Fagerlund, 4206 Longfellow av., 1-story frame dwl.; address owner, 3439 19th av. S.....	2,000
Wm. F. Brink, 5149 30th av. S., 1½-story frame dwl.; H. Galehutt, builder; address owner, 2837 5th av. S.....	1,600
Oscar Roberts, 3718 Oakland av., 1-story plaster veneer addition to dwl., alterations change barn into dwl., front porch and alterations; Alfred D. Johnson, builder; address owner, 3539 15th av. S.....	1,950
Magnus Swenson, 3640 38th av. S., 1½-story frame dwl.; address owner, 2311 Riverside av.....	1,200
Nick Geanakoplos, 2629 E. Lake st., 3001-06 27th av. S., alterations to store building, new store fronts (2); contract not let; address owner.....	4,000
C. A. Phelps, 919-21-23 Nicollet av., 2-story brick and reinforced concrete stores (3) and offices (foundation for 6-story building); Jas. H. Brown & Co., builders; address builder, 936 Lumber Exchange.....	35,000
Mrs. Alice A. Knapp, 1052 31st av. S., 1-story frame dwl.; contract not let; address owner.....	2,000
Mrs. Alice A. Knapp, 1055 31st av. S., 1-story frame dwl.; contract not let; address owner.....	2,000
B. L. Swanson, 1053 42d av. S., 1-story plaster veneer dwl.; address owner.....	1,200
C. M. Way, 2760 Randolph st. NE., 1½-story frame dwl.; I. C. Jones, builder; address owner, 960 15th av. SE.....	1,500
C. M. Way, 2710 Randolph st. NE., 1½-story frame dwl.; I. C. Jones, builder; address owner, 960 15th av. SE.....	1,500
C. M. Way, 2826 Grand st. NE., 1½-story tile and brick dwl.; I. C. Jones, builder; address owner.....	1,500
C. M. Way, 2846 Grand st. NE., 1½-story tile and brick dwl.; I. C. Jones, builder; address owner, 2611 Dupont N. American Const. Co., owners and builders, 2806 N. Colfax av., 1-story frame dwl.; address owner, 302 Andrews bldg. ....	1,000
American Const. Co., owners and builders, 2859 N. Colfax av., 1-story frame dwl.; address owner, 302 Andrews bldg. ....	1,000

John A. Horsager, 3741 12th av. S., 2-story plaster veneer flats (4); address owner, 3737 12th av. S.....	6,000
John A. Lindstedt, 4005 Harriet av., 2-story plaster veneer dwl.; address owner, 3154 Bryant av. S.....	3,500
Paul Orfon, 3840 S. Upton av., concrete block foundation, interior finish, alterations; Heaton & Ellison, builders; address owner .....	1,400
Robt. Johnson, 4320 11th av. S., 1-story plaster veneer dwl.; address owner, 1906 10th av. S.....	2,000

### NEW FIRE LIMITS.

\*An ordinance passed this week by the council put Lake st., Chicago av. to Lake Calhoun, ninety-two feet on each side, in the fire limit district; same restrictions as downtown.

Bids will be received by the board of education at Excelsior, Lake Minnetonka, until 6 p. m., March 3, for heating, plumbing, ventilating, gas piping, wiring, and electric fixtures; also accessory equipment, of the new high school; C. T. McElroy and C. LeRoy Kinport, architects, 416 Essex building, 10th and Nicollet; check 5 per cent; plans ready Feb. 24, all bids sent to board of education, Excelsior; official advertisement in The Improvement Bulletin this week.

Specifications for a complete pumping equipment for the municipal power plant at Grand Rapids, Minn., have been drawn by Edward P. Burch, consulting engineer, 922 Plymouth building; equipment includes two 40 h. p., 2200-volt 3-phase motors to drive two 750-gallon per minute pumps, for domestic and fire service; engineer's estimate, \$3,000; proposals should be mailed to secretary, water, light, power and building commission, before March 10, 1915.

C. Howard Parsons, architect, 601 Phoenix building, will have plans for the new school at Pelican Rapids, Minn., completed in about a month; bond issue for \$30,000 carried; brick, 2-story, steam heat, fan ventilation, slate black boards, finished base, plumbing, wiring, spring work; J. P. Wallace, secretary, board of education, Pelican Rapids; about \$5,000 will be spent on improvement in present school building, including ventilation system.

\*Haley & Johnson, architects, Plymouth building, are preparing plans, out next week, for a duplex at Bedford and Seymour sts., Prospect Park; frame, stucco, hot water heat, three sets plumbing, special sideboards, fireplaces, sun porches, billiard room; T. Benson, owner, Bedford and University, takes figures; day labor.

\*Pike & Cook Co. have the contract for the construction included in the elaborate improvement of the grounds of the R. M. Bennett summer home, Deephaven, Lake Minnetonka; terraces, walks, pergolas, drives, fountains, greenhouses; Morell & Nichols, landscape architects, Palace building.

\*Dorr & Dorr, architects, Lumber Exchange, have awarded contracts on the 5-apartment building, 3908 S. Thomas, for J. D. Davies; heat, plumbing to A. F. Crouse, Bryant av. (ideal down-draft and Warren Webster modulation); electrical work to Wochler & Noble, 706 W. Lake st.

C. G. Wentworth, 100 Metropolitan Life building, has secured permit for an apartment building at 16 Oak Grove st., 42x113, 3-story, brick, steam heat, laundry, stoves, refrigerators, porches, modern; cost \$38,000; no architect; contract not let.

L. L. Chadwick, 112 E. Lake, is building a modern dwelling at 3942 2d av. S., 25x32, 1½-story, frame concrete block foundation, hot water heat, \$3,000; plans by Lemuel Jepson, architect, Pleasant and W. 58th st.; day labor.

Bids received by the city until 3 p. m., Feb. 25, for furnishing cast iron water pipe valves, hydrants, etc., checks for \$1,500, for water pipe bids; \$100 for valves; \$150, hydrants; American Water Works specifications.

Downs & Eads, architects, N. Y. Life, have furnished plans for an addition to the plant of the Haynes Bread Co., University av., near Dale, St. Paul; contract let.

Oscar Roberts, 3718 Oakland, is remodeling a barn into a dwelling, addition, plaster veneering, \$1,950; Alfred D. Johnson, contractor, 2725 14th av. S.

The Avery Steel & Iron Co. have the order for the iron work for the dairy barn at Glen Lake, Davis Construction Co., contractors, Kasota block.

\*Maurice Schumacher was awarded the contract for the large garage to be built by the L. S. Donaldson Co.; bids being taken on the heating till Feb. 20; Kees & Colburn, architects, Donaldson block.

\*Morell & Nichols, landscape architects, Palace building,



# PROPOSAL ADVERTISING FOR BIDS

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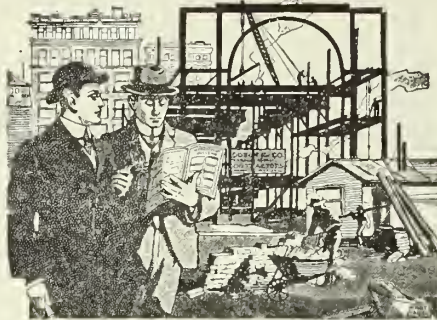
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**OFFICIAL ADVERTISEMENTS** for proposals will be published in this department on receipt of copy with order from authorized official, building committee, architect or engineer.

**RATE:** 15c per line each insertion. No discounts allowed. Several insertions are customary to insure full and fair competition.

**PUBLICATION DAY:** Last forms close 10 a. m. Friday. Copy received up till that hour will be published in The Bulletin and delivered to subscribers the next day. Copy received later cannot be published till issue of the following week:

**MINIMUM CHARGE:** No advertisement published for less than \$2.00 each insertion.

**NIGHT LETTER OR PHONE:** When too late to send copy by mail to reach us by 10 a. m. Friday, forward by night letter or long distance telephone.

The Daily Reports of The Improvement Bulletin, published every business day, can be used to advantage when copy cannot reach us in time for publication in the weekly Bulletin before bids are to be opened or when daily publications are necessary to meet legal requirements. Rate is the same, —15c per line each insertion.

## Proposal Index

Bids Close	See Imp. Bulletin Dated
Mar. 3. Mechanical Equip, High School, Excelsior, Minn..Feb. 20	
Mar. 16. Elect. Plant, Windom, Minn.....Feb. 20	
Mar. 10. Sewer, Mason City, Ia.....Feb. 20	
Mar. 1. Bridges, Long Prairie, Minn.....Feb. 20	
Mar. 15. Creamery, Wendell, Minn..Feb. 20	
Mar. 13. Ditch 2, Owatonna, Minn..Feb. 20	
Mar. 8. School, Jamestown, N. D..Feb. 13	
Feb. 21. Church, Easton, Minn.....Feb. 13	
Mar. 2. Deep Well, New Ulm, Minn.....Feb. 13	
Mar. 5. Heat. Pl., Vent., School, Sidney, Neb.....Feb. 13	
Mar. 3. Bridges, Nelson, Neb.....Feb. 13	
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Feb. 25. Church, Detroit, Minn.....Jan. 23	
Feb. 27. Govt. Bldg., Miles City, Mont.....Jan. 9	
March 1. Extension street lighting system, Grand Forks.....Jan. 30	

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### ENGINEERS

### OSCAR CLAUSSEN ENGINEERING COMPANY

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are completing the preliminary studies for laying out the 200-acre grounds of Carleton college, Northfield, Minn., and bids on the brick dormitory.

\*Subcontracts are still to be let on five miles of the Wisconsin & Northern railroad, Crandon, Wis., by E. G. Brandenberg Co., Temple Court; clearing, poles, posts and ties; seven miles has been let.

\*The S. Swenson Artesian Well Co., of 258 Plymouth av. N., Minneapolis, Minn., have been awarded the contract to drill a 1,400-foot well for the city of Albert Lea, Minn.

\*A 24-apartment flat will be built by Aug. John and Edward Carlsted, 234 20th av. N., at 1101 S. 7th; concrete foundation, steam heat, modern; no architect; day labor; \$35,000.

\*C. B. Stravs, architect, Security Bank building, furnished plans for remodeling store at 121 Washington av. S., to theater for Charles Johnson and B. Vitalis; \$3,000.

The Avery Steel & Iron Co. are furnishing the iron work for the duplex which Wm. T. Benson is building at 3424 Pillsbury av.

\*Bids in on district school of Groveland, Lake Minnetonka, 12 noon, Feb. 25; Long, Lamoreaux & Long, architects, 830 Hennepin.

John Boes is building a flat building at 50 Cedar Lake road, for which the Avery Steel & Iron Co. has furnished the iron work.

Fire destroyed two dwellings at the Narrows, Lake Minnetonka, owned by James N. Houts; loss \$10,000.

The Avery Steel & Iron Co. furnished the iron work for the Regent theater, Hennepin and 6th.

\*New bids on Biology building are being checked up by the architect.

Fire damaged the Security Envelope factory, 2900 5th av. S., \$4,000.

Fire damaged Smith Sash & Door Co. plant, 216 6th st. S., \$4,000.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

### Building Permits.

Frank O. Halstrom, 1926 University av., builder, 2-story frame dwl., Roy near Shields.....	5,000
S. S. McConnell, 2-story frame addition to dwl., Ottawa near Morton; Nelson & Peterson, builders.....	5,000
Nelson & Peterson, 704 S. Smith, builders, 1-story frame dwl., Ottawa near Winona.....	2,700
Flora Zacheison, 504 Brainerd, 1½-story frame dwl., 1319 Burr; Edw. Zacheison, builder.....	1,900
Elroy McKennon, 1436 Payne, builder, 1½-story frame dwl., Hawthorne near Earl.....	1,800
Jos. Walrowsky, 1½-story frame dwl., Reaney near Clarence; Twin City Building Co., builders.....	2,200
Axel Olson, 1124 Grand, builder, 2-story frame dwl., Grand near Cleveland.....	3,000
H. H. Placke, 915 Andrus building, Minneapolis, builder, 2-story brick and tile flats, Oxford near Marshall.....	8,000
H. H. Placke, 2-story brick and tile flats, Oxford near Marshall.....	8,000
Lee Swanstrom, 149 Blair, builder, 1½-story frame dwl., Asbury near Blair.....	2,000
S. N. Ewanson, 1475 Minnehaha, builder, 2-story brick stores and flats, Snelling near Sherburne.....	16,000
Oscar H. Rundquist, 1466 Selby, 1-story frame dwl., Selby near Saratoga.....	2,000
R. S. Sharpe, 1½-story frame dwl., Goodrich near Prior; Axel Olson, builder.....	2,500
H. K. Harrison, 650 Grand, 1-story Buick garage, 648 Grand; L. A. Papke, builder.....	2,700
M. Rosenbloom, 779 Courtland, alterations and repairs to 2½-story frame dwl., 755 Courtland; G. H. Abbott, builder.....	1,500
Smith & Taylor, 48 E. 4th st., 1-story cement block store, 1545 University.....	2,300
John Peterson, 761 Reaney, 1½-story frame dwl., Jesse near Whittall.....	2,100
Nick F. Handlos, 1½-story frame dwl., Denny near Arcade; Fred W. Schmiede, builder.....	1,300
Gus Marks, 1½-story frame dwl., Front near Kent; P. H. Nellesen, builder.....	1,800
Theodore Olson, 394 Herschel, builder, 1½-story frame dwl., Lafond near Snelling.....	1,700
Edwin A. Johnson, 787 Jessamine, 1½-story frame dwl., Earl near Ivy; Olson & Erickson, builders.....	3,200

Alfred H. Wheeler, architect, Globe building, has furnished plans for a 2-apartment bungalow, on Ottawa, near Morton, for J. S. McConnell cement foundation, frame and stucco, hot water heat, modern, boiler, laundry trays, shingle roof, porches, hardwood floors and finish; contract let to Nelson & Peterson, 704 S. 5th., at \$5,095; work to begin at once.

Axel Olson, 1124 Grand, is building for R. S. Starpe, a 1½-story frame dwelling, 24x28, hot water heat, modern, sleeping porch; Goodrich between Prior and Sue, \$2,500; also, 2-story frame, modern dwelling, for himself, 24x40, hot water

heat, tile bath, fireplace, sleeping porch, sun-room, \$3,000; Grand between Cleveland and Finn.

Peter J. Linhoff, architect, Germania Life building, will have plans ready next week for a modern residence on Portland av., for Emil Kreger; brick, stucco, 2-story, 2 tile baths, hot water heat, brick fireplace, laundry trays, sleeping porch, sun-room, shingle roof; architect will take figures.

C. A. Bassford, architect, Gilfillan block, has finished plans for a duplex on Blair for Jacob Anfang, 2-story, frame, hot water heat, concrete foundation, laundry tray, china closet, column arches, birch finish, two baths, porches, shingle roof, electric bells; owner let work.

H. A. Sullwold, architect, Studio building, is preparing plans for a bath house and covered board walk for the St. Paul Automobile Club, at the club house, White Bear Lake; frame, rough shiplap stained, composition roof, lattice pavilions, about \$2,000.

Cameron & Co., general contractors, Ryan Annex, have been awarded two large contracts recently, the St. Paul alms house addition, Buechner & Orth, architects, and the hospital at Red Wing, for the state board of control; C. H. Johnston, architect.

Peter J. Linhoff, architect, Germania Life building, has prepared plans for a duplex on Portland av., for M. Edelstein, frame, 4 baths, tile, also tile sun-porch, tile floor in kitchen, laundry trays, sleeping porches; architect takes figures.

\*Contract for duplex at Hewett and Snelling let to Axel Doran, 3732 Oakland, Minneapolis; Jonas Smith, owner; frame, hot water heat, two boilers; Haley & Johnson, architects, Plymouth building, Minneapolis.

Nelson & Peterson, 704 S. 5th st., have the contract for a frame bungalow, 26x44, \$5,000, Ottawa, between Morton and Page, for S. L. McConnell, also frame dwelling, 24x40, Ottawa near Winona, for themselves.

\*Haley & Johnson, architects, Minneapolis, have furnished plans for remodeling store premises at Raymond and Hampden for Wilder Lodge, I. O. O. F.; lodge halls, kitchens, banquet room, wiring.

E. L. Masqueray, architect, Endicott building, will have plans ready soon for a parochial school at Wells, Minn., for



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### PROPOSALS FOR HIGH SCHOOL CABINET WORK.

Crookston, Minn.

Bids for furnishing and installing cabinets and book cases in the Crookston High School will be received until 7:30 P. M., February 20th, 1915, by the Board of Education Independent School District,

No. 1, Crookston, Minnesota, at the office of the Superintendent at the Crookston High School.

Said proposals shall be made according to the plans and specifications prepared therefore by Bert D. Keck, Architect, Crookston, Minnesota, now on file at the office of Prof. G. H. Sandberg, Crookston High School, at the office of the Architect, and at the Builders Exchange, Minneapolis, Minn.

All bids are to be addressed to Mr. James Hanson, Clerk, and each bid to be accompanied by a certified check in the amount of \$300.00.

The Board reserves the right to reject or accept any proposal. Bonds will be furnished by the successful bidder as required by state law.

By Order of the Board of Education, February 4th, 1915.

Board of Education,

By S. M. SIVERTSON,

President.

JAMES HANSON,

Clerk.

### DEEP WELL PUMPING EQUIPMENT.

New Ulm, Minnesota.

Sealed bids will be received at the City Clerk's office at New Ulm, Minn., up to 5 o'clock P. M., March 2, 1915, for the furnishing of all tools, labor, materials and equipment for a deep-well pump-head including all electrical apparatus, partly described below.

Diameter of well casing, 12 inches.

Depth of well, 364.5 feet.

Required capacity, 250 gallons pm.

There shall be an open discharge about 30 feet above floor line.

About 150 feet of water in well-pump standing.

Switchboard panel and accessories complete.

Each bidder will be required to furnish detailed plans and specifications covering all parts included in his bid.

A general outline of the requirements and information for bidders to prepare their plans and specifications may be had upon application for same to A. J. Mueller, Supt., E. L. & W. W. Dept., and City Engineer F. D. Minium.

All bids are to be sealed and marked, "Proposal for Pump Head and Equipment," and accompanied by a certified check in the sum of ten per cent of such bid, payable to the City Clerk, to be for-

feited to said City in case the successful bidder fails to enter into contract and furnish satisfactory bond within 10 days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated Feb. 2, 1915. New Ulm, Minn.

Seal\*

WM. BACKER,

City Clerk.

A. J. MUELLER,

Supt. E. L. W. W. Dpt.

SCHOOL.

Millersburg, Iowa.

Sealed proposals will be received March 10th, 1915, at 11 A. M., by the Independent School District of Millersburg, Iowa, for the erection of a 9-room school house.

All bids must be in strict accordance with plans and specifications prepared by Reimer & Berlin, Architects, Marshalltown, Iowa, which may be seen on and after Feb. 20th, 1915, at the office of the architects or at the Orville Hatter store at Millersburg. Plans may be obtained from the architects by a deposit of \$5.00 which will be returned when plans are returned to the architect in good condition. A certified check of \$300.00 must accompany each general bid, on heating \$100.00, plumbing \$100.00, lighting \$25.00.

The right is reserved to reject any or all bids.

G. E. JACK,

Secretary of the Independent School

District, Millersburg, Ia.

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St. Casimer's parish, modern, brick, 2-story, steam heat, all improvements.

City purchasing department will get bids on 8,200 barrels of cement, 3,000 yards crushed rock, 2,500 yards sand, 250 pounds lime, 30,000 feet pine boards, 14 kegs of nails.

A business block, to cost \$40,000, is planned for property at 176 E. 6th, recently leased by T. C. Van Danaker with Butler Brothers Construction Co., N. Y. Life; 60x150.

A cement block store will be built by Smith & Taylor, 48 E. 4th, 25x60, 1-story, composition roof, plate glass front, hardwood finish, \$2,200, at 1545 University.

A home for girls from out of town but employed in St. Paul, is planned by Lutheran churches, to take place of small home conducted by First Lutheran church.

Twin City Building Co., 1224 Margaret, is erecting a 1½-story frame dwelling, 22x28, frame, hot water heat, modern, on Reaney, near Clarence, \$2,200.

The Avery Steel & Iron Co. has recently furnished the iron work for the store building which Kivatinetz Brothers are erecting at 107 S. Robert st.

L. A. Papke, 817 Aldine, has the contract for an addition to brick garage at 648 Grand, for H. K. Harrison; 1-story, 64x61; \$2,700.

A bill introduced at the Capitol sets aside \$57,000, from Stillwater prison fund for woman's prison; approved by committee.

Two bridges on Wheelock Parkway are under consideration by the city and the Soo road; Louis Nash, commissioner, City Hall.

A lodge building for the A. O. H. is under consideration; T. F. Kelleher, 287 Harrison, chairman, committee.

An elevator will be built by C. C. Gray, hay and grain, 55 Plato av., after fire, 50,000-bushel capacity, 150x150.

A bill for a modern ventilating system in the house of representatives, State Capitol, has been introduced.

Commissioner McColl is having plans prepared for a garage for the city, to cost about \$12,000.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

Albin Carlstadt will build frame dwelling, E. 7th st. and 10th av., \$3,500.

W. T. Bray, architect, Fidelity building, will have plans out shortly for a 2-story brick store at Hibbing, Minn.; A. P. Silliman, owner; cost about \$10,000.

The Duluth Ice Co. report that they are planning on the erection of a new plant for the manufacture of artificial ice to be located corner of St. Croix av. and Buchanan st.; plans to be ready about the first of March.

J. M. Carson, architect, 210 W. 1st st., is taking bids on house No. 14, Kenilworth Park; will have house No. 15 ready next week, frame and stucco, 2-story, cost about \$4,500.

P. M. Olson, architect, Selwood building, will have plans out this week for a residence for W. I. Poole, 57th av. W. and Huntington st., frame; cost about \$4,000.

P. M. Olson, architect, Selwood building, is taking bids on alterations and addition to residence of F. E. Church, Hunters Park, to close Saturday.

P. M. Olson, architect, Selwood building, has completed plans for the remodeling of a residence into flats; Mr. J. Udseth, owner, W. 4th st., between 40th and 41st avs.

P. M. Olson, architect, Selwood building, is preparing plans for a 2-story brick, stone foundation, flat building for Mr. Dahl, lower side of 6th st., between Lake av. and 1st av. W., cost about \$5,000; owner will do his own brick and stone work.

W. P. Allred, architect, Mesaba block, is preparing plans for a 4-room frame addition to the school at Birchdale, Minn.; cost about \$14,000; will be ready next week.

Shurick & Solheim, architects, Torrey building, will have plans out tomorrow for alterations and addition to the residence of Dr. F. H. Bernard, Jr., 4213 McCullough st., Lakeside.

Shurick & Solheim, architects, Torrey building, are drawing plans for the residence of Arthur H. Burg, nine rooms, stucco, in the normal school district; ready about March 1.

Shurick & Solheim, architects, Torrey building, will have plans out within a short time for a residence for L. F. Devlin, Lakeside; refiguring.

Carl A. Nystrom, architect, 502 Palladio building, is taking bids on the remodeling of the Echo theater, 515 W. Superior st., into a store building.

The Duluth Realty Co., W. W. Fenstermacher, First Nat'l Bank building, are taking bids on a residence for Ira W. Smith, 18th av. E. and 4th st., frame and stucco, cost about \$6,000.

V. J. Price & Co., architect, 608 Palladio building, have been selected as architects on the brick high school building to be erected by the Crosby and Ironton, Minn., districts.

V. J. Price & Co., architects, 608 Palladio building, are preparing plans for a 35x50, 1-story, full basement, store building, at 21st av. W. and Superior st., A. Hanson & Co., owners; cost about \$5,000.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Geo. C. Ehlers, architect, 721 3d st., awarded following contracts on 7-apartment house for E. O. Klann on Stowell av. near Webster pl.: cut stone, Erdman & Schmidt; plaster. H. J. Krauss; sheet metal, C. T. Goesse; iron, The Skobis Co.; electrical, Puehler-Gauerke Electric Co. The same architect is nearly ready for bids on a double store and flat building to be erected at Ring and Julia; brick veneer and stucco, 42x54; cost, \$9,000; contracts will be awarded about Feb. 27.

Frame duplex houses are to be erected in Milwaukee by the following: Walter Tasch, at 1517 Cherry st.; Max Kupper, Lincoln av., near 9th av.; Hugo Frey, Richards st. and Auer av.; I. Miller, Mitchell st., near 7th av.; M. H. Lynch, Farwell, near Linwood av.; Michael Rolfe, E. Milwaukee; Fred Maettig, architect, Pabst av., near 52d st.; Fischer & Caswell, W. 24th st. and Lisbon av.; S. Rosenthal (2), Wall st., near Center st.

Additional contracts awarded by Leenhouts & Guthrie, architects, 424 Jefferson st., on the \$60,000 apartment house for Chas. Gilman and F. C. Courtenay, 12th st., near Grand av., are: plastering, Wm. Gregory; sheet metal, W. F. Arndt; painting and glazing, Jas. P. Rice; marble, Breidster Barble Co.

Henry C. Hengels, architect, 701 Grand av., awarded following contracts on residence of A. W. Burcle, Highland Park; mason, Wm. Nuernberg; tile, H. Neidner Co.; painting, glazing and decorating, Harry F. Fruebbe; interior finish, W. H. Schmidt & Son; brick, Ricketson & Schwarz.

Brust & Philipp, architects, 506 Free Press building, are taking bids for the marble work on the \$225,000 St. Joseph's convent chapel, Layton boul. and Greenfield av., and for the \$100,000 residence for A. F. Gallun on Newberry boul., near Lako Drive.

Bids for the excavation and substructure of the new 18-apartment building to be erected at Grand avenue and 21st st., are now being taken by Martin Tullgren & Sons, architects and owners; dimensions, 90x200.

W. F. Neuman, architect, will take bids after Feb. 22, for the erection of a \$10,000 printing plant at 20th and Clybourn sts., owner's name withheld; brick and tile, 36x110, 2-story and basement, with steam heat.

Armand D. Koch, architect, Wells building, awarded the plumbing on \$50,000 Oxford building annex, Jefferson st. near Oneida st. to Dearsley Bros., Milwaukee.

Chas. J. Keller, architect, 521 Germania building, is making plans for a \$5,000 summer home for Robert Haasch on Okauchee lake, Waukesha county, Wis.

Gustav A. Dick, architect, 811 State st., closes bids Feb. 20, on a \$4,500 bungalow for Chas. Blackburn at 49th st. and Pabst av.; previously noted.

G. J. Boxhorn awarded the contract for erecting a frame duplex costing \$5,500 on 26th av., near Greenfield av., R. H. Hansen, Milwaukee.

Frank Potratz will erect a 2-story brick building, containing two stores and two apartments, at 25th and Burleigh sts., cost \$6,800.

## WINNIPEG, MAN.

Foundation is in for refectory building, Kildoan Park; cost, \$15,000. J. H. Blackwood, secretary, Chamber of Commerce building; architect, J. W. Northwood, Northern Crown Bank building.

Winnipeg Aqueduct Construction Co., Ltd., incorporated, \$250,000, by C. V. Cummings, W. A. Carter, G. E. Elliott, G. H. Davis, J. B. McLean, F. E. Halls, all of Winnipeg.

Bids have been taken on sewers to cost \$200,000.



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
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contractors and others  
since 1892.

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MINNEAPOLIS

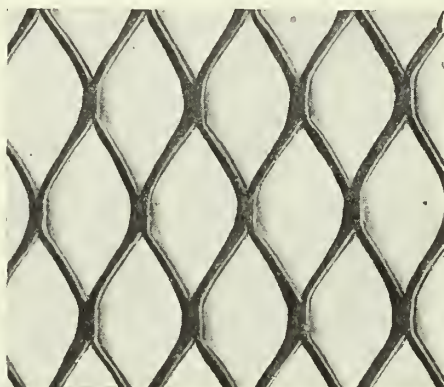
## PROPOSALS

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., February 9, 1915.—Sealed proposals will be opened in this office at 3 p. m., March 23, 1915, for the repairing, remodeling, etc., of the United States post office and courthouse at Des Moines, Iowa. Drawings and specifications may be obtained from the custodian at Des Moines, Iowa, or at this office in the discretion of the Supervising Architect. O. Wenderoth, Supervising Architect.

### ROLLER WANTED.

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTLE, Sioux City, Iowa.

(Continued on page 18.)



## LUXFER EXPANDED METAL

has become the Standard Metal Lath

—and here are just a few reasons WHY.

It is made from high class open hearth steel—it is the most rigid and stiff lath on the market, providing thereby a smooth and even surface for plastering.

It is manufactured in sheets 24½ inches wide by 97 inches long, but is only charged for on the basis of 24 by 96 inches—allowing the remainder for lapping.

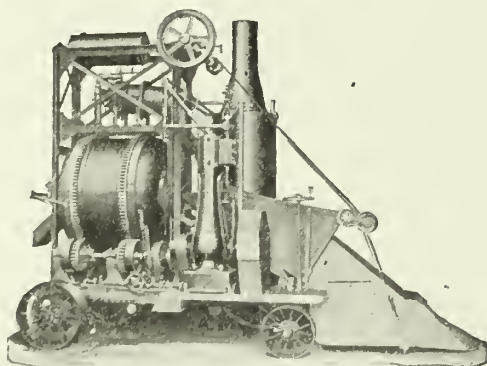
It is most economical in use because its solid construction makes plastering easy, and saves considerable labor and time, and it is especially noted for its uniformity of quality and stiffness.

In our close association with Contractors for many years, we naturally know their needs—and have therefore included the best material and features in the LUXFER Expanded Metal Lath. Manufactured and Guaranteed by the

### AMERICAN LUXFER PRISM COMPANY

New York—507 W. Broadway	Dallas—Builders' Exchange	New Orleans—904 Hennen Bldg.
Philadelphia—411 Walnut St.	Boston—49 Federal Street	San Francisco—445-47 Turk St.
St. Paul—365 University Ave.	Milwaukee—Stroh Bldg.	Los Angeles—928 S. Main St.
Duluth—106 W. Michigan St.	Chicago—Heyworth Bldg.	Rochester—38 Exchange St.

## The Mixer that Proves It's Quality by It's Record



The Koehring Hot Mixer for Bituminous Pavements.

**H**OW much you must charge up to depreciation and repairs are as important questions in determining the real cost of a mixer as the initial expense.

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It's the Koehring Quality Mixer that proves its dollar-earning qualities by its record of continuous service and low cost of maintenance.

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**KOEHRING MACHINE COMPANY, Milwaukee, Wis.**

H. B. JONES, Dist. Mgr.

350 Security Bank Building

Minneapolis, Minn.

"CONCRETE FOR PERMANENCE"



## REASONABLY STRONG

The Panama Canal was built exclusively of Atlas Portland Cement. Over six million barrels used—not one barrel rejected.

Certainly a reasonably strong recommendation of absolute uniformity, meaning that you get identically the same high quality when you buy ATLAS.



## SIOUX CITY, IOWA

The Mystic Milling Co., H. J. Hutton, Sioux City, president, will build a reinforced concrete elevator on the site of the one burned last year, 1st and Steuben sts. The cost of the structure will be \$150,000; work is expected to start during the latter part of March.

Beuttler & Arnold, Security Bank block, are furnishing plans for a house for Len Lessenic, 2707 Nebraska st., at a cost of \$10,000 and plans for an addition to the First National Bank, at Hull, Iowa, to cost \$7,000; this will be of brick construction.

Demand for a junior high school to cost about \$90,000 is being made by the school board; indications are that the plan will be submitted to a vote at the spring election; F. E. Colby, 509 Davidson block, is the high school architect.

Among the building permits for the week are E. H. Gaynor, house, 511 Center st., \$1,000; E. W. Meis, house, 603 38th st., \$5,000; R. W. Tackaberry, house, 2204 McDonald st., \$3,500.

F. E. Colby, 509 Davidson block, has been selected architect to furnish plans for the deaconess' home of the First Methodist church; the cost of construction will be about \$30,000.

An architect will be named within the next few days to draw plans for the new Methodist church building at 7th and Nebraska sts., at a cost of \$50,000.

A Syndicate block, at the corner of 6th and Douglas sts., is being planned by the owners of the property; W. Cornish Beck, is the head of the syndicate.

G. W. Burkhead, Commercial block, will furnish plans for a house for H. P. Nelson, to be built at 1924 George st., at a cost of \$3,500.

The Lytle Construction Co. will build the new building for the First National Bank, at Colman, S. D., to cost \$15,000.

## GARAGES AND BARNs

Iowa, Algona—A. J. Brown will build new set of buildings on his farm.

Iowa, Arlington—A modern fireproof garage will be erected by W. E. Anderson; 20x100.

Iowa, Marshalltown—Fire destroyed the large barn on the Geo. Merrill farm; loss about \$5,000, insured.

Minn., Arlington—John Hahn of New Auburn township will erect a barn, 38x70, and granary, 28x28, concrete foundations.

Minn., Gary—Jens Hamre will erect a 32x60 barn in Bear Park this spring.

Minn., Maple Lake—John Hessel of Albion will erect large barn in spring.

Minn., Melrose—Maus Bros. will erect a brick garage, modern, work to begin soon.

Minn., Pemberton—Alick Guddal will erect a modern garage in the spring, 26x60.

Minn., Wabasha—Henry Brucehaber will erect cement block barn, in the spring.

Wis., Allen Grove—A large barn will be erected by Marshall Brothers.

Wis., Ellsworth—John Plifka will erect a large barn in the spring.

Wis., Glenwood—A 36x60 basement dairy barn will be erected by John Luedtke, in the spring.

Wis., N. Luck—A barn, 36x80, covered with steel will be erected by C. B. Jensen.

Wis., Marshfield—Wm. Wenzel is making plans for a brick and stone garage, 2-story, 44x40, on Central av.

Wis., Rock Elm—Mrs. August Rinkey will erect a barn, 136 x 70.

## BIDS WANTED.

Wis., Marinette—Bids received until 3 p. m., Feb. 25, for frame dairy barn at Marinette county asylum farm; plans at architect's office, Derrick Hubert, suite 5, Spies building, Menomonie, Mich., or with R. M. Smith, superintendent of asylum; check 5 per cent; J. O. Rollins, chairman, building committee.

## CONTRACTS AWARDED.

Minn., Badger—Contract awarded to J. N. Johnson for a garage for Magnus Hovig, 40x80, concrete floors.

Wis., Green Bay—Contract awarded to H. J. Selmer for large addition to the West Side garage, C. A. Jones, owner; brick and cement.

## THEATRES AND HALLS

Iowa, Des Moines—A. H. Blank will build another picture theatre, to cost \$50,000; strictly modern, seating for 1,000.

Iowa, Fort Dodge—Red Men have selected building committee, Samuel Sampson, chairman; site not selected.

Iowa, Manchester—Plans under way for a theatre and office building to be built by S. A. Steadman; 40x130, two stories and basement, probably fireproof; construction to start soon as weather will permit.

Minn., Albert Lea—Site decided upon for Y. M. C. A. building and a \$60,000 plant contemplated; 3-story, brick and stone; Ernest Fagenstrom, secretary.

Minn., Cloquet—Site has been located for proposed fire hall and special election will be held March 8 to vote on \$12,000 bond issue for construction of building; H. A. Parks, city clerk.

Minn., Forbes—The base ball club has purchased 5-acre tract and will build grand stand to hold 300 people.

Minn., Mapleton—Several thousand dollars subscribed for an opera house, and stock company may be organized. Address the mayor.

Minn., Northfield—Women of city have started movement for armory; cost \$20,000; address Miss Minnie Watson, president, D. A. R.

Minn., Watertown—Plans in progress for proposed summer pavilion, stage, etc., 50x90, 1-story, \$4,000; K. T. Snyder, architect, Plymouth building, Minneapolis.

Minn., Winona—Plans in progress for addition to Y. W. C. A. building; 50x70, 2-story and basement, \$22,000; Arthur Starin, architect, Duluth; Address Florence Youmans, 227 Wilson av., Winona.

Mont., Billings—Plans under way for a frame tabernacle, seating capacity of 4,000; Rev. Mr. Mecklenburg in charge.

Mont., Malta—Definite action soon on building for women's club.

Mont., Hamilton—Plans are being considered for enlarging the courthouse; address county clerk; bids will be advertised for on a wing addition at once.

Mont., Library—Library committee has altered plans to be less pretentious for front entrance to library, in accordance with suggestions of Carnegie Library Foundation; address secretary library board.

Neb., Alliance—Site purchased for Masonic temple; probably started within present year. Address secretary order.

Neb., Fremont—Citizens urging that effort be made to secure Carnegie assistance for a library building; H. G. Meyer, secretary, library board.

Neb., Omaha—Plans maturing for a Masonic club house for those outside Scottish Rite. Address secretary Commercial club.

Ore., Marshfield—Moose lodge has purchased site for building during year.

Ore., Portland—Loyal Order of Moose, lodge No. 291, intends erecting a 6-story fireproof club house, costing \$120,000; Geo. R. Funk, chairman, building committee.

Wash., Port Angeles—Construction of motion picture theater building, owned by W. C. Nelson, and to cost \$20,000, will be started at once; C. S. Grandy, superintendent.

Wis., Antigo—P. J. Hanson has commissioned H. T. Liebert, architect, Wausau, Wis., to prepare plans for a brick and steel theater building, seating 1,500, dimensions, 44x180 ft., fireproof construction, terra cotta trimming, steam heating system. Owner will take bids and superintend construction.

Wis., Bay City—Yeoman hall burned; loss between \$7,000 and \$8,000.

Wis., Madison—The Madison club has started active work looking to the construction of a club building; articles of incorporation filed for \$50,000; address secretary of the club.

Wis., Menomonie—All bids rejected for heating plant for court house; bids on three different types were submitted by Eau Claire Car & Heating Co., Stengel of Menomonie, and Strand & Metcalf, Menomonie.

Wis., Milwaukee—Milwaukee Athletic club will build 12-story club house, costing \$900,000. Address secretary club.

Wis., Oconomowoc—Committee appointed to plan ways and means for modern club house for Bachelor's club. Earl Campbell, president.

## BIDS WANTED.

Kan., Emporia—Bids received by L. V. Starkey, secretary, until March 5, for Y. M. C. A. building; 3-story, brick, stone and concrete, \$50,000; Shattuck & Hussey, architects, 19 La Salle st., Chicago.

Mont., Great Falls—Bids received by Lynn H. Fox, secretary, Y. M. C. A., until 3 p. m., March 1, for erection and com-



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

### OMAHA, NEB.

Bids are being taken by the Nebraska National bank for a second building, west of and adjoining present building, 1204 Farnam st., John McDonald, architect; two stories and basement.

Geo. A. Loslyn of the Western Newspaper Union will erect a 5-story fireproof building at 9th and Howard sts., for the Newspaper Union and the Western Paper Co.

A campaign will be begun next month to raise funds for old people's home. Mrs. Edward Johnson, president association.

Walter Peterson, contractor, low bid on the 2-story and basement addition to present Nebraska National Bank building.

\*W. H. Parrish has contract to remodel Bachelor apartments, 20th and Farnham; six stores; \$6,000.

\*C. W. Martin has taken out permits for eleven dwellings, north section, \$2,500 to \$4,000.

A modern apartment house will be erected by H. W. Binder in the spring; cost, \$30,000.

### TOO LATE TO CLASSIFY. MILLS AND FACTORIES.

\*Minn., Wendell—Bids received by Geo. Shuck, secretary, until 2 p. m., Mar. 15, for creamery building. Check for 5 per cent. Official advertisement in this issue of the Improvement Bulletin.

### SEWERS.

\*Iowa, Mason City—Bids received by J. H. McEwen, city clerk, until 10 a. m., Mar. 10, for approximately 23,000 feet sub-main and lateral sewers, 8, 10, 12 and 15 inches in diameter; five proposals. Officially advertised in this week's issue of the Improvement Bulletin.

### SCHOOLS.

\*S. D. Letcher—Contract awarded to Gray Construction Co., Watertown, S. D., for the school at \$18,000; S. W. Jonasson & Co., Aberdeen, \$18,145; H. F. Stotte, Redfield, S. D., \$18,400; Johnson Construction Co., Minneapolis, \$18,420; S. H. Shoutz, architect.

### WINNIPEG, MAN.

Bids will be taken later on ornamental iron and bronze for the Parliament building, 340x320; cost, \$4,000,000; F. W. Simon, architect, 261 Fort St. building.

Fire destroyed the Western News Agency building; loss, \$5,000.

## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE

**HAAKINSON & BEATY CO., SIOUX CITY, IOWA**

ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS

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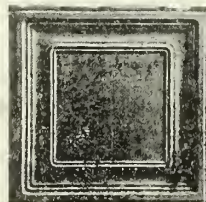
There is nothing more dignified or elegant than our large Weatherproof Fiber Cardboard Signs. More serviceable than iron, wood or cloth. Packed in a box—printed—ready for displaying.

### 2 x 3 ft. SIGNS --- 12c EACH.

\$12.00 per 100. Check with the order. We pay the freight. Other sizes, 1½x3 ft. to 3x4 ft., proportionate prices. Send for an Illustrated Folder.

### INDEPENDENT PRINTING CO'S. of U. S.

General Sales Offices - McLachlen Bank Bldg., Washington, D. C.



Extra Long Bead.  
Note the Deep Cup in the  
Nailing Button and the



Quickly Nailed  
An Apparently  
Seamless Job

### IMPORTANT EXTRA ETUFEAR

*BERGER'S*  
**Classik**  
STEEL CEILINGS

Proven beyond any possible doubt

### PERFECTLY FIRE RESISTING

In official fire test at Columbia University fire testing stations, Greenpoint, N. Y., they remained intact during entire duration of test (1 hour and 10 minutes), in a fierce and raging fire of 1,800 degrees of heat. Wood lath and plaster fell 6 minutes after starting of fire.

Does not this prove Berger's Classik Steel Ceilings Fire Retardant and Perfect in Construction?

They also are ornamental, sanitary and easy to erect.

Write for catalog and prices.

**The Berger Mfg. Co.**

300-312 Tenth Ave. So.

Minneapolis, Minn.

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**Sand** AND

Write to  
**Humboldt Sand &  
Gravel Co. Humboldt, Ia.**

Best by test of Iowa State Engineering Department. We can supply it for all kinds of work.

**Gravel**

### About Calls for Bids

The object of advertising for bids on township, municipal, county and other work is to be sure that the work will be done at the lowest price consistent with good quality.

Improvement Bulletin is the only construction news Weekly published in the Northwest, and prints so much more advance construction news than any other paper in the Northwest that it is carefully read by the very men from whom you want bids. The Bulletin is, therefore, the right paper for you to use.

The charge is small, only 15 cents a line each insertion.



**ENGINE, GENERATOR, ETC.**

Marshall, Minn.

Bids will be received by the city of Marshall, Minn., at the office of A. A. Regnier, City Clerk, until 8 P. M., March 1, 1915, for a direct connected steam engine and 100 k. w. alternating current generator, two switchboard panels and other accessories. Bids to be accompanied by certified check in the amount of 10 per cent. Specifications are on file at the office of the city clerk, Marshall, Minn., Minneapolis Builders' Exchange, and W. C. Buck, Consulting Engineer, Minneapolis. Bids shall be sealed and marked. The right is reserved to reject any or all bids.

**BIDS FOR SEWER CONSTRUCTION.**

Mason City, Iowa.

Sealed proposals will be received by the City Council of Mason City, Iowa, until 10:00 A. M., March 10, 1915, for approximately 23,000 feet of sub-main and lateral sewers, to be constructed of the best quality of vitrified sewer pipe, 8, 10, 12 and 15 inches in diameter. Five separate proposals.

Plans and specifications on file in the office of the City Engineer.

J. H. McEWEN,  
City Clerk.

**ADVERTISEMENT FOR BIDS FOR LABOR AND MATERIALS IN THE CONSTRUCTION OF AN ELECTRIC LIGHT PLANT FOR THE VILLAGE OF WINDOM, MINNESOTA.**

Notice is hereby given that until 7 o'clock, P. M. on the 16th day of March, 1915, bids for labor and materials required in the construction of an electric light plant for the Village of Windom, Minnesota, will be received according to

**FOR SALE**

Twelve cubic foot Standard Mixer, equipped with folding platform, power pump and 125 feet 1½-inch hose for pumping own water, used less than two weeks, thoroughly overhauled and freshly painted, guaranteed to be in brand new condition, \$485.00 if taken at once for cash. Freight paid to any point within 100 miles. Write or wire PAUL N. KINGSLEY, Strawberry Point, Iowa.

**FOR SALE AT A BARGAIN.**

One 300-H. P. Twin City Cross Compound Corliss Girder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.

**SPECIAL HOTEL ACCOMMODATION FOR SALE.**

\$150.00 worth of room accommodation at the best hotel in Minneapolis for sale at reasonable discount. Can be used at any time. Will sell all or any part. Save money on your traveling expenses by writing us.

THE IMPROVEMENT BULLETIN  
Minneapolis Minn.

the plans and specifications which are on file in the office of the Village Recorder of said Village of Windom, Minnesota, and also in the office of Earle D. Jackson, Consulting Engineer, St. Paul, Minnesota, and may be there examined and seen.

The work is divided into two parts, viz.:

Part I., consisting of furnishing and erecting one 125 horse power fire tube boiler, breeching, piping connections, etc., one 75 k. v. a. and one 100 k. v. a. engine-generator unit, switchboard, etc., for the electric light plant of the Village of Windom, Minnesota.

Part II., consisting of furnishing and erecting poles, wire, street lamps, transformers, etc., for the electrical distribution system of the Village of Windom, Minnesota.

Bids will be received on complete parts only.

Bids must be made out on the bidding blanks furnished by the consulting engineer for this purpose, and must be accompanied by a certified check for 5 per cent of the contract price, as a guarantee that the bidder will enter into a contract and perform the work in case the contract is awarded to him. In addition the successful contractor must give a bond for the carrying out of the work on award of contract for the full amount thereof, to continue for one year from date of acceptance of work.

The sum of \$3.00 (to cover cost of printing and mailing) must accompany applications for copies of plans and specifications and the latter must be returned with bid, otherwise the bid will not be considered. The consulting engineer reserves the right to make any minor changes in the plans or specifications before award of contract.

Address bids to the Village Recorder, Windom, Minn. The right is reserved to reject any or all bids.

Village of Windom, Minnesota,  
W. M. HALE,  
Village Recorder.

Windom, Minn.

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In Style—in Size—in Operation—in Speed—in Adaptability, It's RIGHT!

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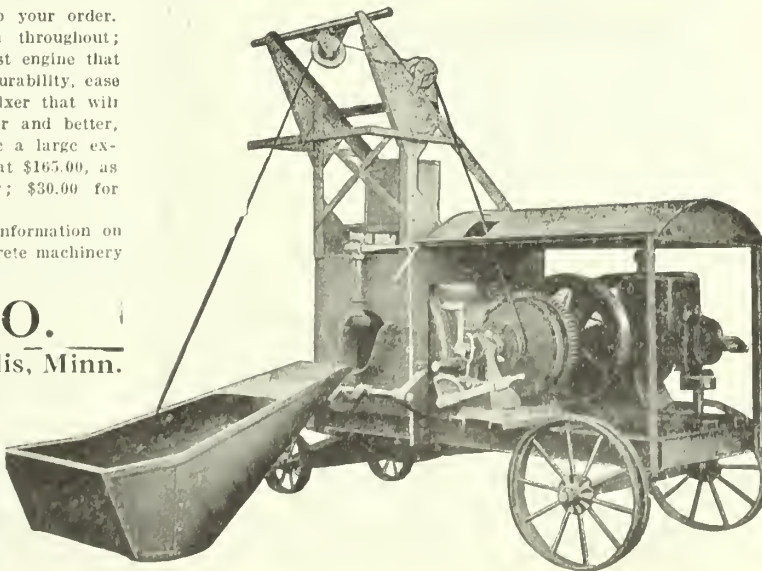
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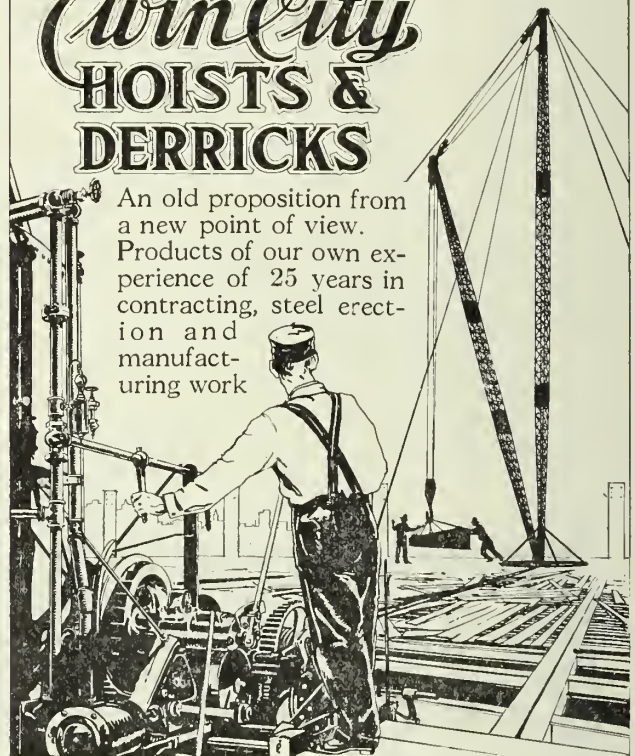
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**NOTICE TO BRIDGE CONTRACTORS.**

**Long Prairie, Minn.**

Notice is hereby given that sealed bids will be received at the office of the County Auditor of the County of Todd at the Court House in the Village of Long Prairie, Minnesota, until one o'clock, P. M., March 1, 1915, for building State Bridges Nos. 1604 and 1656 in the County of Todd, State of Minnesota.

State Bridge No. 1604 is to be built across the Long Prairie River in the West half of Section 9, Town of Hartford, Todd County, Minnesota. The superstructure will be two 60 ft. truss spans, 18 ft. road way, concrete floor on concrete abutments. Distance from top of floor to bottom of foundation 13 ft. The bid on this bridge should include the removal of the old bridge.

State Bridge No. 1656 is to be built across the Partridge River in Section 26, Town of Bertha, Todd County, Minnesota. The superstructure will be 20 ft. span 18 ft. road way, concrete floor on concrete abutments. Distance from top of floor to bottom of foundation 13 feet.

Plans and specifications may be seen at the above named office, or at the office of the State Highway Commission at St. Paul.

Each proposal must be accompanied by cash or a certified check for not less than five per cent of the amount of the bid, payable to the county treasurer of said Todd County. All bids must be upon blank forms furnished by the undersigned.

Separate proposals should be made for each bridge.

The Board reserves the right to reject or accept any proposal.

E. M. BERG,  
Auditor Todd County,  
Minnesota.

**HIGH SCHOOL.**

**Excelsior, Minn.**

(Mech. Equip.)

The undersigned hereby gives notice that sealed proposals for the Heating, Ventilating, Plumbing, Gas Piping, Wiring and Electric Fixtures and accessory equipment, including all labor and material, will be received by the Architects, McElroy & Kinport, 416 Essex Building, until the hour of 6 P. M., on the 3d day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by Architects, which may be seen on application to Builders' Exchange, Minneapolis; plans ready Feb. 24.

A certified check for 5% payable to the order of Board of Education, Excelsior, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of value of contract for the faithful performance of the contract. The right is reserved to reject any or all bids.

All bids must be sent to the  
BOARD OF EDUCATION,  
Excelsior, Minn.

**NOTICE TO CONTRACTORS.  
ADDITION TO WATERWORKS SYSTEM.**

**South Stillwater, Minn.**

Sealed proposals will be received by the Village of South Stillwater, Minnesota, until 6 o'clock p. m. March 2nd, 1915, for the construction of certain addi-

tions and improvements to the village water supply as follows.

Concrete Reservoir.

Brick and Concrete Pump House.

Pumping Machinery with Connections. Distribution Pipe Line System, covering approximately—

750 ft. 12-inch pipe.

4200 ft. 8-inch pipe.

200 ft. 4-inch pipe.

Hydrants, specials, etc.

All work to be done strictly in accordance with plans and specifications on file in the Village Recorder's office, and also at the Office of the Improvement Bulletin, Minneapolis, Minn., bids being considered for either the entire work or for each portion separately.

Copies of plans and specifications can be obtained by remitting \$5.00 to Oscar Hunhke, Village Recorder, South Stillwater, Minnesota.

Bids for the complete work to be accompanied by certified checks of \$600.00 (Six hundred dollars); each separate portion being accompanied by certified checks of \$150.00 (One hundred and fifty dollars).

Bond for full contract price to be furnished by contractor to whom work is awarded.

The Village Council reserves the right to reject any or all bids.

By order of Village Council.

Dated at South Stillwater, Minnesota, February 2, 1915.

Signed: OSCAR HUNHKE,  
Village Recorder.

**CREAMERY BUILDING.**

**Wendell, Minn.**

The undersigned hereby gives notice that sealed proposals for the erection of one story brick creamery building, including all labor and material, will be received by the Creamery Board, until the hour of 2 p. m., on the 15th day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by A. H. Fass, architect of Elbow Lake, which may be seen at the office of the architect or at Bank of Wendell, Minn., on and after Feb. 20th, 1915.

A certified check for 5 per cent, payable to the order of John Raines, Pres., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) GEORGE SHUCK, Secy.  
Place, Wendell, Minn.  
Date, Feb. 15, 1915.

**NOTICE TO DITCH CONTRACTORS.**

**Owatonna, Minn.**

Sealed proposals will be received by the County Auditor of Steele County, Minnesota, at his office in the Court House, in the City of Owatonna, until two o'clock, P. M., Saturday, March 13, 1915, for the construction of Judicial Ditch No. 2, in said Steele County, Minnesota.

The work to be let consists of the excavation of a main ditch, three lateral and three branch ditches, containing in all 240,447 cubic yards of excavation.

Also the furnishing and installing of 30 corrugated metal culverts and constructing one highway bridge. Plans and specifications may be seen at the office of

the County Auditor of Steele County and at the office of George A. Ralph, Engineer in charge, 410 Shubert Building, St. Paul, Minnesota.

Bids must be made on blank forms which will be furnished by the Engineer. Each bid must be accompanied by a certified check for ten per cent of the amount bid, made payable to the County Auditor of Steele County, as a guarantee of the good faith of the bidder.

The right is reserved to reject any or all bids.

Dated at Owatonna, Minnesota, February 17th, 1915.

GEORGE A. RALPH,  
Engineer in Charge.  
M. J. PARCHER,  
County Auditor.

**NOTICE TO CONTRACTORS.**

(Watermains.)

**Fairmont, Minn.**

The undersigned hereby gives notice that sealed bids for the construction of approximately 12,200 feet of 4-inch, and 600 feet of 6-inch water mains, together with hydrants and necessary fittings to complete the job, all materials and labor to be furnished, as per plans and specifications on file with the city clerk, will be received by the City of Fairmont up to the 25th day of February, 1915, at eight o'clock, P. M. A certified check for 5 per cent of the amount of bid, payable to the City of Fairmont, must accompany each bid as a guaranty, the same to be returned to the unsuccessful bidders, immediately on letting the contract.

The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of the full amount of the contract for the faithful performance of the same. The right to reject any and all bids is reserved by the Water & Light Commission.

Place, Fairmont, Minn.  
(Signed) H. B. TUTTLE,  
City Clerk, Fairmont, Minn.

**JOBS**

Wanted—Young man with building material experience preferred, to call on Northwestern architects and contractors regarding mortar material. BOX 50.

**POSITION WANTED BY**

**Engineer**—Good all around designer of structural steel and reinforced concrete; several years' experience designing and estimating for general contractors. Box 1, Improvement Bulletin.

**WANTED.**

A thorough experienced bookkeeper and stenographer for contractor's office. Must have experience and good recommendations. Give full particulars as to age, experience and whether married or single, and enclose self addressed envelope for reply, in first letter. Address W. J. Curren, Valley City, N. D.

**POSITION WANTED.**

By Architectural Draftsman, 12 years' experience. First class references. Moderate salary. Address box 85, Improvement Bulletin, Minneapolis, Minn.

**POSITION WANTED.**

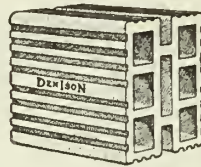
Young man, high school graduate, with two years' practical experience in architectural drafting and general estimating, wishes position in some branch of the building line. Best of references; address, Box 64, care of The Improvement Bulletin.



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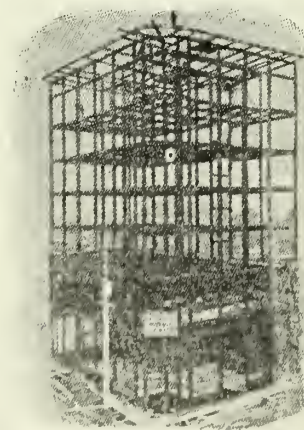
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CLINTON - IOWA



**Theaters and Halls—Continued from page 17.**

pletion of Y. M. C. A. building; check for 5 per cent.

**Wis., Kenosha**—Bids received by Joseph Lindl, architect, city, until March 1, for \$30,000 club house for the Eagles; brick, steel, and frame, 2-story and basement, steam heat.

**Wis., Milwaukee**—Bids received by Leon M. Gurda, architect, 478 Mitchell st., for a lodge hall and store building for Anton Piskula, 8th st. and Manitoba av.; 100x100, 2-story.

**Wis., Milwaukee**—Kirchoff & Rose, architects, 1312 Majestic building, preparing plans for theater building costing \$350,000, seating capacity of 3,000, the Palace Hippodrome Building Co., Milwaukee; 110x150, and incorporate hippodrome, stores and offices; bids taken by architects about March 15.

**CONTRACTS AWARDED.**

**Iowa, Garner**—Contract to B. S. Stratton, Mason City, for library building at \$7,500.

**Minn., Duluth**—Contract with Geo. Lounsberry for armory at \$107,419.

**Wis., Oshkosh**—Contracts awarded by county board as follows: pumping and water works system to Globe Pump Co., Green Bay; electric light system and wiring to Langstadt-Moyer Construction & Supply Co., Appleton, Wis.

**HOTELS AND HOSPITALS**

**Iowa, Waterloo**—Fire nearly destroyed Martin hotel.

**Minn., Barnesville**—Bids will be taken about March 10 by the owner, J. W. Bernardy on a hotel building; 70x80, 2-story and basement, \$30,000; Hoffman & Mosse, architects, Rochester, Minn.

**Minn., Bemidji**—Plans for \$30,000 sanitarium at Lake Julia for counties of Beltrami, Hubbard and Koochiching, have been approved; work will begin soon as possible; Dr. W. W. Higgs, Park Rapids, for information.

**Minn., Granite Falls**—Site purchased for tuberculosis hospital for Yellow Medicine, Renville, Chippewa and Lac qui Parle counties; Sund & Dunham, architects, Andrus building, Minneapolis.

**Minn., Rochester**—Plans in progress for addition to Kahler hotel; F. H. Ellerbe, Endicott Arcade, St. Paul, Minn.

**Neb., Lincoln**—Plans in progress for hotel and store building for John R. Bennette, 1520 L st.; 37x75, 2-story and basement \$10,000; J. G. Cordner, architect, Bankers' Life building.

**N. D., Williston**—Plans for proposed big hotel here have been contracted for from R. T. Frost, architect, Minot; cost, \$100,000; work to start at once.

**S. D., Effington**—Dr. C. E. Howg, Greenbush, Minn., will build hospital here; 34x42, 2-story and basement.

**S. D., Huron**—McWeeney hotel damaged by fire; loss from \$2,500 to \$3,000; James McWeeney, owner.

**Wash., Bremerton**—Contract for contagious ward at Navy Yard hospital has been made with Bert Ward, at \$12,614.

**Wash., Pacific Beach**—Plans have been completed for a \$17,000 hotel here; C. E. Troutman, architect, Aberdeen, Wash.; Carl Cooper, manager.

**Wash., Walla Walla**—St. Mary's hospital, recently burned, will be rebuilt if town and vicinity respond; \$50,000 now available by sisters; address Dr. H. R. Keylor.

**Wis., Chippewa Falls**—Moses Sarrasin has purchased site and it is reported he may build a \$75,000 hotel.

**Wis., Eau Claire**—Plans for a 6-story fireproof hotel to cost \$150,000 being prepared by Harrison G. Happy, architect, city; stock company back of proposition, but no names made public.

**Wis., Fond du Lac**—The Carnegie Hotel Co. has been incorporated with a capital of \$50,000 for the purpose of building a hotel; detailed plans not worked out; G. A. Romaine is one of the incorporators.

**Wis., Fort Atkinson**—W. D. Weeks writes that contract will not be let for some time on proposed \$16,000 hospital building.

**Wis., La Crosse**—Announced that bids are being taken by St. Francis hospital, care Rev. K. Beyer, on one wing addition to the hospital; 56x42 and 56x44, 3 and 4-story and basement, \$50,000; Parkinson & Dockendorf, architects, Linker building.

**Wis., Rhinelander**—Preliminary sketches for proposed hotel to be erected under auspices of Advancement Association have been completed, cost \$75,000; E. A. Marstow, secretary; Geo. B. Herman, architect and engineer.

**Wis., Superior**—Announced that Emil Uhlrich, architect, 706 Euclid building, Cleveland, O., will be ready for bids about March 1, for orphan asylum for St. Joseph's Orphan

Asylum, care Rt. Rev. J. M. Koudelka, Superior; 150x170, 3-story and basement, \$80,000.

**Wis., Wyocena**—Plans ready about March 1, for poor house for Columbia county, John Scott, Poynette, chairman committee; tile and concrete, \$30,000; A. D. Conover, architect, Madison, Wis.; 2-story and basement, 150x56, with connecting corridors and superintendent's cottage, 28x72; tile walls (kind not decided), brick, flues, wood roof (pitched, covering not decided), reinforced concrete floors, plumbing, wiring, steam heat.

**SCHOOLS**

**Iowa, Council Bluffs**—Plans for addition to 5th st. school, by Fred Cox, architect, have been accepted by the board of education.

**Iowa, Madrid**—Election to vote school bond will be held March 8, board of education.

**Iowa, Menlo**—Movement on foot to consolidate schools in district and surrounding districts, and build school to cost \$20,000.

**Iowa, Milton**—At the next school election bonds in sum of \$40,000 will be voted for new school building.

**Iowa, Missouri Valley**—Beebeetown and adjacent territory have voted to erect a new rural school, cost \$10,000.

**Minn., Anoka**—The school bond issue for Franklin school building were defeated.

**Minn., Appleton**—A modern school will be erected in district No. 35.

**Minn., Carlton**—Fire destroyed the high school here; loss about \$20,000; insured at \$22,000.

**Minn., Clara City**—Wood Lake voted \$10,000 bonds to enlarge school building.

**Minn., Columbia Heights**—A \$17,000 bond issue was voted for new school.

**Minn., Fairfax**—Maxwell school in Martinsburg township, district No. 84, burned, insured at \$1,000; J. H. Maxwell, member of board.

**Minn., St. Paul**—Hearing was held by house committee, at the Capitol, on bill for \$150,000, to build a 6th state normal school at Bemidji; next hearing March 9th.

**Minn., Wells**—Plans ready soon, E. L. Masqueray, architect, Endicott building, St. Paul, for St. Casimir's parish school; modern.

**Minn., Winona**—Plans for consolidation of five rural school districts is under way and erection of a modern building, at Freuont, in Winona county.

**Mont., Bozeman**—Fred F. Willson, architect, Bozeman, will prepare plans for parochial school, also Holy Rosary church.

**Neb., Hastings**—\$130,000 bond issue will be voted this spring for new school.

**Neb., Sargent**—School board is planning to erect school here.

**N. D., Dunseith**—Bids will be opened Feb. 20, for frame school in district No. 23; plans at Magnet office; Harry Gilbert, clerk.

**N. D., Ellendale**—Bonds in sum of \$19,000 were voted for new school building.

**N. D., Mott**—Avery Steel & Iron Co., Minneapolis, has recently furnished a fire escape to the Mott Construction Co., for school building.

**N. D., Nortonville**—Avery Steel & Iron Co., Minneapolis, has furnished the iron work including a fire escape for the new school building here.

**S. D., Raymond**—Bonds for new school were voted, carried **Wash., Renton**—Plans completed by A. P. Denton, county engineer, for grading and gravel surface on 10 miles of highway, Renton to Issaquah; cost about \$80,000.

**Wis., Madison**—All bids were rejected on Fair Oaks school; Architect F. L. Kronenberg will draw new plans and bids will be called for.

**Wis., Madison**—Claude & Starke, architects, Madison, are ready for bids on erection of \$60,000 school, to be known as Lincoln school, brick and stone, 79x105, 2-story and basement; C. H. Tenny, chairman.

**Wis., Peshtigo**—At spring election in April question of building large addition to school will be voted on; cost about \$50,000.

**Wis., Randolph**—Raneber & Mehner, architects, Fond du Lac, Wis., are revising plans and will take bids about Feb. 22, for erection of a \$25,000 combination high and public school, for village of Randolph; brick and stone, 2-story and basement, 48x90.

**Wis., Shiocton**—Fire destroyed high school building; loss about \$15,000.

**Wis., Stevens Point**—An \$80,000 addition will be erected to



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Minneapolis, Minn.Residence of Isaac W. England, Passaic, N. J. Covered with J-M  
Asbestos Stucco. John F. Kelly, Architect.

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St. Joseph's academy, 4-story, 150x60, reinforced concrete and brick fireproof; plans prepared by architects, E. Brielmaier & Sons Co., Milwaukee; bids being taken.

#### BIDS WANTED.

**Iowa, Des Moines**—Bids received until 12 m., March 6, for school building, independent consolidated district of Webster and Jefferson townships, Polk county; building to be located at Johnston, Iowa; plans by Kraetsch & Kraetsch, architects, 213 Security building, Des Moines; on file at office of architects; B. B. Dewey, secretary, room 101 Court House; check 10 per cent.

**Iowa, Millersburg**—Bids received until 10 a. m., March 10, by independent district of Millersburg, for 9-room school; Reemer & Herlin, architect, Marshalltown; official advertisement in the Improvement Bulletin this week.

**Iowa, Oskaloosa**—Bids received until Feb. 27, 8 p. m., for school in independent district of Oskaloosa; check \$500; J. H. Shoemaker, president; L. T. Shangle, secretary, board of education.

**Minn., Excelsior**—Bids received until 6 p. m., March 3, for heating, plumbing, ventilation, gas piping, wiring, electric fixtures and accessory equipment, for school; plans by architects, McElroy & Kinporte, 416 Essex building; plans at Builders' Exchange, Minneapolis; check 5 per cent; official advertisement in The Improvement Bulletin this week.

**Minn., Hopkins**—Bids will be received until 12 m., Feb. 25, for a 2-room brick and frame school; plans by Long, Lamoreaux & Long, architects, 830 Hennepin av., as follows: letting No. 1, general work, check 5 per cent; No. 2, plumbing and sewerage, complete, check 5 per cent; letting No. 3, heating and ventilating, check 5 per cent; No. 4, electrical work, complete, check 5 per cent; plans at office of Long, Lamoreaux & Long, architects, also school board, Groveland, Minn., and commissioner of schools, Main Engineering building, university of Minnesota; W. B. Miller, clerk, Groveland, Lake Minnetonka.

**Minn., Williams**—Bids received until 4 p. m., Feb. 20, for sale of \$10,000 school bonds for school in consolidated district No. 91; check 2 per cent; bids to be opened 4 p. m., Feb. 27; A. W. Atwater, clerk, school board.

**Mont., De Grand**—Bids received until March 5, 6 p. m., for \$2,500 coupon bonds for school; 6 per cent; John A. Smith, C. J. Massey, trustees District No. 118, De Grand, Mont.

**N. D., Harmon**—Bids received until 2 p. m., March 13, Butte school district, Oliver county, for addition to Meisel school building; plans at office of Yucca post office, or clerk's office.

**N. D., Minot**—Bids received until 10 a. m., Feb. 23, for a 4-room school building; plans by Architect J. C. Woodruff, Minot, on file at Builders' Exchange, St. Paul, and Minot; also at office of architect and clerk of district; H. O. Sethre; check 5 per cent.

**Wis., Barron**—Bids received until Feb. 27, 2 p. m., for a school in District No. 1, town of Vance Creek, Barron county; plans with Odin Larson, R. F. D. No. 3, Clayton, Wis. Tom Stafne, district clerk.

#### CONTRACTS AWARDED.

**Minn., Morgan**—Contract awarded to Carkhoff & Hackett, Redwood Falls, Minn., for addition to public school, at \$5,940; plumbing and heating not let yet; Albert Schippel, architect, Mankato, Minn.

**Mont., Anaconda**—Contract awarded to Johnson & Law, of Anaconda, Mont., for new school building, district No. 10, at \$52,546; other bids were: W. G. Reed, Dillon, Mont., at \$51,546; Shackleton, O'Connell & Sypher, Butte, Mont., \$51,643; Kroffgan & Frank, Butte, Mont., \$58,770; John Hexem, Butte, Mont., \$59,967.

### MILLS AND FACTORIES

**Alta., Lethbridge**—Cream of Wheat Products Co. of Minneapolis, may establish a branch factory here.

**Minn., Bird Island**—Co-operative creamery has been incorporated by farmers and business men; capital \$10,000; plant to be built early in the spring; Nels Matteson, president; Jos. Sester, vice president; Adolph Loomis, secretary; John J. Hopman, treasurer.

**Minn., Gheen**—Doyle Brothers may erect mill here.

**Minn., Minneapolis**—Fire damaged the Security Envelope Co. plant about \$5,000, at 2900 5th av. S.

**Minn., Long Prairie**—Fire destroyed the Robt. Schulke feed mill and blacksmith shop; loss about \$2,500, partly insured.

**Minn., Minneapolis**—Contract awarded to Elson-Williams, 830 Hennepin av., for the 3-story brick factory of S. R. Sikes Co.; Long, Lamoreaux & Long, architects, Minneapolis.

**Minn., Sleepy Eye**—A cold storage and ice plant will be installed here; \$10,000 stock has been raised, Jens Jensions interested.

**Mont., Billings**—Work will begin about May 1, on canning factory at Cove Orchard, erected by the Montana Land & Farm Products Co., R. F. Danahar, Minneapolis, and C. B. Little of Chicago, interested, president and vice president; plans being prepared by Chicago architect, under direction of A. C. Allen, manager, Cove Orchard.

**Sask., Saskatoon**—Manager of large oatmeal mill announces that company will enlarge its plant soon.

**Wis., Beloit**—Rex Gasometer Co., incorporated, capital \$35,000; W. H. Corcoran, R. H. Goodwin and Earl R. Young, incorporators.

**Wis., Grand Rapids**—Prentiss-Weaver Co., incorporated, capital \$20,000, will erect plant for manufacturing of metal specialties, including gasoline gauges, automatic cook stoves, auto chairs, potato planting and harvesting implements, etc.; T. A. Taylor, D. B. Philleo and G. O. Babcock, incorporators; G. N. Prentiss, Racine, Wis., promoter.

**Wis., Lusk**—Reported that a cheese factory will be erected at Bone Lake.

**Wis., Milwaukee**—Fire damaged the plant of the Gummed Tape Co., 79 Muskego av., \$8,000; Clyde Hanson, owner.

**Wis., Stitzer**—The Stitzer Creamery Co., Grant county, is having plans prepared for new dairying plant and ice and refrigerating unit.

### PUBLIC BUILDINGS

**Alta., Macleod**—Sketches prepared for city hall to cost \$100,000; H. Hodgson, Bates & Co., architects, Grain Exchange, Calgary. E. Foster Brown, clerk.

**Iowa, Ames**—Plans in progress for city hall; Liebke, Nourse & Rasmussen, architect, Utica building, Des Moines.

**Iowa, Atlantic**—City is considering a new city hall; cost \$20,000; address city clerk.

**Iowa, Bedford**—Election March 2 on proposition for Carnegie library building. Address city clerk.

**Iowa, Traer**—Plans being revised for Carnegie library; cost, \$15,000; J. G. Ralston, architect, Syndicate building, Waterloo; address Dr. H. Brown for particulars.

**Man., Winnipeg**—Plans in progress for postoffice to be built here; H. E. Matthews, government architect, Lindsay building. R. C. Desrochers, secretary, Ottawa.

**Man., Winnipeg**—Walls up three stories on Parliament building, costing \$4,000,000; Thos. Kelly & Son, Lindsay building, general contractors; bids called for later on ornamental iron and bronze work, also for interior fittings; building is of Manitoba stone construction.

**Minn., Mountain Iron**—Bids will be called for soon as council approves plans for village hall recently completed by Bray & Shand, architects, Virginia; cost about \$20,000.

**Mont., Cascade**—Council will submit to the people proposition for new city hall building to cost \$3,500; address city clerk.

**Neb., Seward**—Architect will be selected at once for county jail and sheriff's residence; two stories and basement, \$10,000. Address county clerk.

**Ore., Grants Pass**—Plans and specifications for \$100,000 county court house to be constructed here will be prepared by E. E. McClaren, architect, Lumber Exchange building, Portland; building to be 2-story and basement; reinforced concrete construction, faced with light colored brick.

**Wash., Seattle**—The Port commission has decided to erect a 4-story head house for the West Seattle Ferry, instead of a 2-story building; cost about \$50,000.

**Wash., Walla Walla**—Plans for county court house soon be ready for county commissioners; Henry Ostermann, architect; H. D. Eldridge, chairman, board.

**Wis., Eau Claire**—Civic and Commerce association will make effort to revive interest in proposed city armory-auditorium; will endeavor to have matter submitted to vote of the people; building to cost \$50,000 proposed. R. F. Kaiser, secretary Civic and Commerce association.

**Wis., Milwaukee**—Permits issued for two fire houses, at \$15,000 each, and a natatorium, to cost \$45,000. Address city clerk.

#### BIDS WANTED.

**Mont., Forsyth**—Bids received by Braz. D. Tull, city clerk, until 5 p. m., Feb. 18 (not Feb. 15, as stated last week), for building and finishing jail; Curtis C. Oehme, architect, St.

**Wis., Chippewa Falls**—Contract to Wm. M. Bartlett, Eau Claire, Wis., for repairs to court house; there were a number of local bidders.





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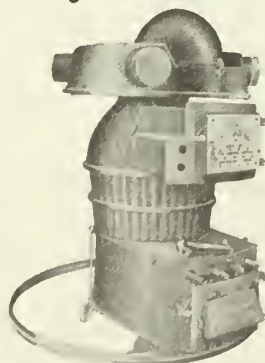
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pleton block, Billings; check for 5 per cent.

**Neb., Broken Bow**—Bids received by H. C. Kimball, chairman building committee, until March 4, for construction library building; 40x50, one story, \$10,000; M. N. Bair, architect, Hastings, Neb.; brick and stone, brick foundation, face and common brick, portwing stone, tile and tin roofing, wood and brick cornice d.s. and p.p. glass, hard wall plaster, hot air heat, 1½-in. face flooring, oak and steel interior finish, cementing, electric bells and lights, hollow tile, iron beams, plumbing, metal ceiling, screens, ventilators.

**N. D., Amidon**—Bids received by J. S. Hume, auditor, Slope county, until 10 a. m., Feb. 24, for a vault in court house; check for \$25.

**Wash., Everett**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., March 22, for construction complete (including mechanical equipment, lighting fixtures, and approaches) of a 2-story and basement stone and brick faced building of 10,300 square feet ground area, fireproof construction, composition roof, for the U. S. post office at Everett, Wash.

#### CONTRACTS AWARDED.

**Sask., Saskatoon**—Contract to George T. Clark of Richardson Builders, Ltd., for proposed postoffice building.

**Wis., Milwaukee**—Contract to Sly. J. Wabiszewski, \$80 Layton boulevard, city, for erection of a \$15,000 fire boat station and dock, also mason work on 3rd ward natatorium.

**Wis., Racine**—General contract for remodeling court house to Henry Brauer & Co.; carpenter, L. C. Sorenson; heating ventilating, Thomas Heating Co.; plumbing, John Feiner; painting, W. S. Buffman & Son; wiring, D. Elmer Roberts; all Racine.

### CHURCHES

**Iowa, Corwith**—A large tabernacle will be erected by the Baptist and Methodist associations.

**Iowa, Dumont**—Funds are being raised for new E. A. church.

**Iowa, Imogene**—Catholic church burned; plans are under way for erection of a new church, cost \$50,000; spring work; insured at \$10,000.

**Iowa, Jefferson**—Members of Christian church are raising funds for new church.

**Iowa, Muscatine**—First Presbyterian church has awarded contract for improvements to its property; cost \$40,000.

**Mont., Belgrade**—The Church of the Ascension has purchased property of the First M. E. church and will remodel and improve same; Rev. Frank B. Lewis, pastor.

**Wis., Brownsville**—St. Paul's congregation are discussing plans for a new church building.

**Wis., Eau Claire**—Plans in progress for Lake st. M. E. church, to be completed in April; J. B. Martin, architect, E. Liverpool, Ohio; brick, 65x90; Rev. Frank L. Roberts, pastor, M. E. congregation.

**Wis., Fond du Lac**—Joseph Lindl, architect, Kenosha, Wis., awarded the general contract for \$23,000 edifice for St. Peter's Roman Catholic congregation, at St. Peter, Fond du Lac county, to Immel Construction Co., Fond du Lac.

**Wis., Green Bay**—The Protestant Church Association plans erection of a large tabernacle, 110x150; seat 4,000 to 5,000.

**Wis., Milwaukee**—Congregation of Hope English Lutheran church plans erection of church; cost \$35,000; to be built in units; C. Schaefer, chairman, building committee.

**Wis., Oconomowoc**—Trustees of St. Paul's Evangelical Lutheran congregation, have authorized purchase of site at Lake and Pleasant st., for erection of \$35,000 edifice; architect not selected yet.

**Wis., Polonia**—Felician sisters of Sharon township, Portage county, will erect 3-story fireproof building, for an orphanage, to replace building burned, last July; cost \$18,000.

### ELECTRICAL

**Iowa, Irwin**—At local election \$6,000 bonds were voted for electric service which will be obtained from Manilla.

**Iowa, Muscatine**—Corporation officials announce project to extend electric line from here to Aledo, Ill., after bridge is erected over Mississippi river by the Interstate Bridge Co.

**Iowa, Schleswig**—City council reported to have made appropriation of \$16,000 for a municipal electric light plant.

**Kans., Hays**—An electric light plant may be installed here; address city clerk; cost about \$10,000.

**Kans., Powhatan**—An electric light plant may be established here; cost \$10,000; address city clerk.

**Minn., Brookston**—Ordinance passed granting to L. P. Runkle, right to erect, maintain, etc., electric light poles and wires in city.

**Minn., Evan**—Contract awarded to Johnson & Jensen for installation of electrical plant.

**\*Minn., Hendrum**—Town is planning to dam Wild Rice Lake for purpose of installing a power plant and electric lighting system.

**Minn., Millville**—Village is making plans for installing electric light plant.

**\*Minn., Willmar**—City Clerk Hans Gunderson has been instructed to advertise for bids on carload of light poles for the water and light board; bids to be taken until Mar. 8.

**Minn., Winnebago City**—Franchise proposition of Commonwealth Power Co., of Mankato, to sell electric light and power to Winnebago, was laid on table.

**N. D., Carpio**—Petition is being circulated for purpose of bonding city for erection of a municipal electric light plant.

**\*N. D., Epping**—An electric light plant will be installed by H. A. Gerling, of city; spring work.

**\*N. D., Milnor**—Franchise was granted to David Vail for installation of an electric light plant.

**Wis., Eau Claire**—A new municipal electric lighting system will be installed in the city.

**\*Wis., Grand Rapids**—Louis Reichel will erect a wireless station here.

**Wis., Grantsburg**—Proposition is being discussed for building a dam at Wood river to furnish power for electric light plant and power plant here; cost about \$20,000.

**Wis., Livingston**—A proposition has been submitted to the village board for approval for installation of 21 lights for incorporated district, by F. C. Ludden, manager of the Mineral Point Public Service Co.

**Wis., Manitowoc**—Kiel, New Holstein and Chilton have voted a fund of \$600, each village \$200 each, for making preliminary surveys for proposed line extension of the Sheboygan Street Railway Co.

**Wis., Medford**—Medford Electric Light & Heating Co., will erect plant of 300 k. w. capacity, furnishing 24-hour service to replace present plant of 90 k. w.; Wm. Ungrodt, superintendent.

**Wis., Poynette**—Poynette Electric Co., organized recently, has made application to the city for franchise to erect and maintain an electric light and power plant; Perry E. Speed, president, Charlotte Speed, secretary.

**Wis., Sheboygan**—The Sheboygan Railway & Light Co., Edward Hammett, general manager, states that it will build, this year, an extension of its interurban and power transmission lines from Elkhart Lake, Wis., to Chilton, via Kiel and New Holstein; surveys under way.

#### BIDS WANTED.

**Minn., Fairmont**—Bids received until 1 p. m., Feb. 27, for installing of electric wiring and fixtures in the Martin county poorhouse; plans by Geo. Passe & Son, architects, Mankato; check 5 per cent; plans on file at county auditor's, H. C. Nolte, Builders' Exchange, Minneapolis and architects, Mankato.

**Minn., Grand Rapids**—Specifications for a complete pumping equipment for the municipal power plant have been drawn by Edward P. Burch, consulting engineer, Minneapolis, equipment includes two 40 h. p., 2,200 volt, 3-phase motors, to drive two 750-gallon per minute pumps, for domestic and fire service; engineer's estimate \$3,000; proposals should be mailed to the secretary of the water and light, power and building commission, before March 10, 1915; B. I. Pratt, secretary.

**Minn., Marshall**—Additional bids will be received until 7:30 p. m., Feb. 20, for one new 100 k. v. a., 225 r. p. m., 2,300-volt, 3-phase, 60 cycle, engine-type, alternator, 35 degrees, temperature rise, (centigrade) at full load direct connected to 1 new simple single valve engine of large enough capacity to drive generator; also a suitable exciter, all according to plans at city recorder's office, A. A. Regnier.

**S. D., Madison**—City commissioners will soon advertise for bids on new 400 h. p. engine for the Madison plant.

**Minn., Windom**—Bids received until March 16, 7 p. m., for

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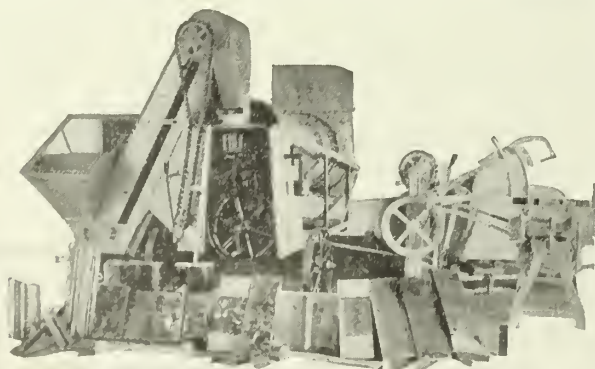
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electric light plant, plans with village recorder, W. M. Hale; also with Earle D. Jackson, consulting engineer, St. Paul, Minn. Check for 5 per cent. Official advertisement in the Improvement Bulletin this week.

#### CONTRACTS AWARDED.

**Minn., Eveleth**—Contract awarded to Home Electric & Heating Co., to furnish arc lights to city.

**Minn., Redwood Falls**—Contract awarded to A. C. Fobes for electric light fixtures in the new Catholic church, at \$243.

**Minn., Springfield**—Proposition is being discussed for an electric light system here.

**Mont., Anaconda**—Contract awarded to the General Electric Co. for electrification of the St. Paul-Puget Sound lines.

**Mont., Lewistown**—The Ravalli County Farmers' Telephone Co. plans to erect a telephone line for Bitter Root Valley.

### MISCELLANEOUS

**Minn., Moorhead**—Plans and specifications have been submitted to the city council for a large greenhouse, by T. J. Berrigan; city negotiating for land. G. H. Rustad, city attorney.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 1, for the following quantities, more or less: 1,015 gallons lubricating oil, 40,400 gallons gasoline, 15,000 gallons fuel oil, 60,000 gallons road oil, 44 barrels engine oil, 60 barrels floor oil, 47 barrels cylinder oil, 2,500 gallons kerosene oil, 500 pounds cup grease and hard oil; bond for 20 per cent or check for 10 per cent.

### ELEVATORS

**Minn., Mapleton**—Farmers Co-operative Elevator Co. may build or purchase elevators here; L. F. Phillips, president.

**Minn., Norwood**—Petition is being circulated for co-operative elevator here.

**Neb., Elyria**—Farmers Grain Elevator Co. plan to raze old building and erect modern elevator.

**Neb., Monroe**—Work will soon begin on T. B. Hord elevator.

**Neb., Oakland**—Special meeting will be held Feb. 15 to consider plans for elevator.

**Neb., Silver Creek**—Farmers Elevator Co. will let elevator contract soon for elevator.

### RAILROADS

**Iowa, Waukon**—Plans for new Milwaukee station are promised soon. Address Mayor Beeman.

**Minn., Grand Rapids**—Minneapolis & Rainey River railroad will make improvements and add equipment.

**Mont., Butte**—About \$3,500,000 will be spent by the Boston & Montana Development Co., through the Butte offices, to build the Southern Montana, 109 miles, Divide to Jackson, through the Big Hole country; trains to run before fall, 1916. McArthur-Perks Co., contractors, New York City, will furnish everything and do all work.

**Mont., Great Falls**—Milwaukee branch line, 70 miles, White Sulphur Springs to Miles City, is under consideration; preliminary survey completed.

**Mont., Miles City**—Northwestern may build from Belle Fourche to Miles City.

**Mont., Philipsburg**—Construction of N. P. station started; 100 feet long; express, freight, living rooms.

**Neb., Falls City**—Missouri Pacific will build a modern station here.

**Neb., Wahoo**—Bill introduced in state legislature for union station here.

**S. D., Tripp**—Petition for new station filed.

**Wis., Valley Junction**—New station ordered by June 1; Omaha and Milwaukee.

### FIRE APPARATUS

**Minn., Crookston**—A new fire company has been organized here; a chemical engine will be purchased as soon as merits of several kinds can be investigated, and a fire bell will also be purchased.

**Minn., Goodridge**—New fire company was organized here, with G. C. Gulrud, chief; R. R. Johnson, assistant chief.

**Minn., Keewatin**—No contract was awarded on 700 feet fire hose, 2 shutoff nozzles, etc.

**Minn., Pipestone**—Fire department will purchase a first aid to the injured outfit.

**Minn., Roseau**—Martin Nelson was elected president of the Roseau fire department. R. A. Gilbertson, vice president.

**Wis., Ellsworth**—C. J. Kempe was elected chief of fire department.

**Wis., Greenleaf**—L. L. Clark was elected chief of the Greenleaf fire department; N. Vandevoort, assistant.

**Wis., Hayward**—Election March 16, to vote on incorporation of Hayward.

**Wis., Hayward**—Special election will be held March 16, to vote on incorporating of Hayward.

#### BIDS WANTED.

**Minn., Duluth**—Bids received until 11 a. m., Feb. 23, for one 6-cylinder motor driven city service hook and ladder truck, for fire department; check 10 per cent; also bids taken at same time and place for an automobile fitted with a 5-passenger body for use of fire chief, to be not less than 60 h. p., equipped with demountable rims, one extra demountable rim, Stewart vacuum feed shock absorbers, one 3-gallon Babcock fire extinguisher, wind shield, lamps, gong, and electric horn; check 10 per cent; C. S. Palmer, city clerk.

**\*Minn., Willmar**—Bids received until 8 p. m., Feb. 23, for installing fire alarm system for connecting forty or fifty telephones to firemen's homes. Certified check for \$25. Hans Gunderson, city clerk.

### RESIDENCES

**Iowa, Audubon**—Chris Thompson will erect a modern residence in the spring.

**Iowa, Brighton**—A modern residence will be erected by James Jones in spring; also J. R. Warner.

**Iowa, Clinton**—John Morrell, architect, will erect new apartment building.

**Iowa, Gilmore City**—John Murdock will erect a modern dwelling.

**Iowa, Donnellson**—Dr. G. W. Steneker will erect modern residence in the spring.

**Iowa, Humboldt**—Baptist society are planning to build new parsonage; spring work.

**Iowa, Readlyn**—A modern dwelling will be erected by John Berger.

**Iowa, Sioux City**—Plans have been prepared by Geo. W. Burkhead, architect, 204-5 Commercial block, for frame residence, 1½-story, 25x40, for J. P. Nelson, 700 W. 7th; bids taken March 1, close in 12 days, by architect; cost \$3,500; pressed brick, furnace heat, gas, electricity, wood roof, common plaster, corner bead, prism glass, tile hearths, tile and yellow pine floors, birch and oak finish.

**Iowa, Sioux City**—Ralph W. Tackaberry will erect modern \$3,600 dwelling.

**Minn., Bowls**—Knut Gunderson will erect modern farm dwelling.

**Minn., Evans**—A modern residence is being planned by R. A. Rasmussen.

**Minn., Minnetonka Beach**—Fire destroyed two dwellings of James M. Houts, at the narrows, Lake Minnetonka; loss \$10,000.

**Minn., St. James**—Contract awarded to John Anderson Rolf for new \$2,500 residence for the Elevator Co., at Darfur.

**Neb., Cedar Bluffs**—Peter Murphy is preparing to erect a \$5,000 farm dwelling.

**Neb., Lincoln**—Don L. Love will erect a modern residence.

**Neb., Morse Bluff**—Frank Vopalensky will erect a modern residence in the spring.

**N. D., Ryder**—John Hill Sr., will erect modern farm dwelling in spring.

**Wis., Allen Grove**—Several residences are planned to be built in the spring.

**Wis., Arpin**—John Stahl will erect a modern residence soon.

**Wis., Beloit**—Fire damaged the residence of Mrs. S. G. Randall, 804 Church st., about \$4,000, insured \$2,500.

**Wis., Chilton**—J. T. Wending will erect a modern dwelling, next spring.

**Wis., Cleveland**—Funds are being raised by John Kelly for erection of a 2,500 room sanitary lodging house, at 15c per room.

**Wis., Ellsworth**—Wm. Boutell will erect a modern house in the spring at El Pasco.

**Wis., Fennimore**—B. W. Doran of Montfort will erect a residence in the spring.



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**Wis., Grand Rapids**—A. F. Billmeyer, architect, is preparing plans for \$20,000 residence for R. M. Rogers, Grand Rapids; brick, stone and frame, 75x54, 2-story and basement, hot water heat.

**Wis., Green Bay**—Fire damaged the home of Wm. Sorenson, about \$3,000.

**Wis., Green Bay**—The East Side Moravian church plans to erect a modern parsonage.

**Wis., Manawa**—Ed. Knopp will erect a cement block house in spring, 28x25 and 18x25, 2-story. Olson & Thompson, contractors.

**Wis., New Butler**—Architect Fred Maettig is planning a brick veneer duplex flat building, cost \$7,000; also planning a \$4,300 frame and plaster duplex flat building here.

**Wis., Sheboygan Falls**—Wm. J. Nelsen will erect a modern residence in the spring.

**Wis., Sun Prairie**—Plans for sisters' residence of Sacred Heart congregation prepared by Hauser & Lump, East Bristol; 36x48, brick veneer, modern.

**Wis., Two Rivers**—Aug. Eller and John Raatz will erect modern dwellings in spring.

**Wis., Wausau**—E. P. Dornstreich will erect modern residence.

**Wyo., Wheatland**—The M. E. Church Association propose to erect a \$3,000 parsonage and a \$5,000 parish house.

## PARKS AND CEMETERIES

**Iowa, Marshalltown**—The Marshalltown Sales Commission Co. will rebuild and enlarge dimensions of sale pavillion, 100x140; ladies' waiting room to be built in connection, large feed barn, 100x125, will be added in Melrose Park; cost about \$5,000.

**Minn., Austin**—Proposition is being discussed for beautifying the Horace Austin State Park; cost about \$20,000.

**Minn., Duluth**—Bond issue of \$300,000 may be voted for buying park site Judge W. A. Cant, Cuyler Adams, H. V. Eva and others committee of Commercial club.

**Ore., Portland**—J. B. Yeon's plan of holding special election in March to vote on proposition of spending \$1,250,000 to hard-surface several trunk roads in the county approved by county commissioners.

**S. D., Watertown**—City commissioners plan to beautify banks of the Sioux river through town, making same into public parks; landscape artist will be engaged to lay out plans; river bed to be dredged; plans and blue prints are being prepared in City Engineer's office.

**Wis., Fond du Lac**—City Engineer J. S. McCullough is preparing plans for 400-foot breakwater at Lakeside Park.

### BIDS WANTED.

**Mont., Great Falls**—Bids received until 8 p. m., Feb. 23, for maintenance of boulevards during 1915, beginning April 1 to Oct. 1; plans with city engineer; check 10 per cent; W. H. Harrison, city clerk.

**Neb., Omaha**—Bids received by Thos. J. Flynn, city clerk, until 9 a. m., Feb. 23, for construction or widening of such walks as may be ordered during 1915, to be of stone, artificial stone, brick tiling and white pine; check for \$50.

**Wis., Milwaukee**—Bids received by Louis G. Widule, county clerk, until 11 a. m., Feb. 19, for grading and paving with concrete North Fond du Lac road, Milwaukee county; 3 miles, 12,585 cubic yards excavation; 25,580 square yards concrete paving; 73 cubic yards concrete culverts; H. J. Kuelling, county highway commissioner; also, at same time, for grading and paving with concrete, Kilbourne road, Milwaukee county; 6 miles, 24,391 cubic yards excavation; 63,324 square yards concrete paving; 283 cubic yards concrete culverts.

### CONTRACTS AWARDED.

**Minn., Duluth**—Contract to Barber Asphalt & Paving Co. for a 1-ton tandem steam or gasoline roller, at \$1,581, less 10 per cent.

## BUSINESS BUILDINGS

**Idaho, Idaho Falls**—George Brunt plans erection of a business building, in town of Ririe.

**Idaho, Malad**—Owners of building recently burned and occupied by drug firm of Thompson-Scott, state that they will rebuild in the spring, modern, brick.

**Iowa, Albia**—Fire caused loss of \$5,000 in Circle Electric Co. store.

**Iowa, Andover**—Contractor Wilke will erect a large warehouse in spring.

**Iowa, Cambridge**—Fire destroyed Nelson Bros. hardware and implement store; loss about \$18,000.

**Iowa, Cedar Rapids**—Merchants National Bank soon begin 12-story structure; cost about \$250,000.

**Iowa, Clinton**—The DeWitt Savings Bank will be remodeled; plans being prepared by architects.

**Iowa, Creston**—New 3-story brick building of the J. H. Merrill Wholesale Grovery Co. burned.

**Iowa, Dow City**—A new bank building will be erected on part of corner lot recently sold by R. W. Houston.

**Iowa, Dubuque**—Building of Torbert drug store will be remodeled into a lunch building for the Dairy Lunch Co. J. J. Nagle, owner.

**Iowa, Forest City**—Fire destroyed the Thurston drug store and Nelson Jewelry store, loss about \$75,000.

**Iowa, Garner**—Contract awarded to Mr. Smith of Waterloo, for new Hanson block.

**Iowa, Kirkville**—Ed. Lewis will rebuild general store building recently burned.

**Iowa, Kirkville**—General store of Ed. Lewis, burned; loss \$2,300; partly insured.

**Iowa, Lake City**—Robert T. Jolly is making plans for erection of a new business building.

**Iowa, Lone Tree**—Postoffice and restaurant burned; loss, \$20,000; insured at about \$10,000.

**Minn., Luverne**—Kartrude Bros. will erect a modern brick block; 44x100; plate glass front.

**Iowa, Marshalltown**—The J. Levin Dry Goods store burned; loss \$102,000.

**Iowa, Onawa**—Fire destroyed the Frank Wise restaurant, and the Wise drug store; loss about \$5,000; insured; will rebuild.

**Iowa, Pella**—Mr. Flanders will erect a building on site of old produce house soon.

**Iowa, Randolph**—Dr. Kerr will erect a modern brick office building.

**Iowa, Ringstad**—Farmers Savings bank will erect a modern brick building in spring.

**Iowa, Sibley**—H. A. Miller & Son, department store, will be enlarged and remodeled.

**Iowa, Sioux City**—Fire damaged the Levich Furniture Co. building, about \$9,000; total loss about \$15,000; C. G. Johnson, owner of building.

**Iowa, Turin**—The Turin Savings Bank will erect new bank in the spring; brick, modern, stucco front.

**Iowa, Van Wert**—Fire destroyed the following business buildings; A. L. Belding, drugs; Ray Easter, general store; Frank Smith, restaurant and grocery; C. A. Walker, hardware and furniture; Odd Fellows' hall; opera house, and Price & Mote real estate office, Jarl & Gunner; estimate loss at \$10,000.

**Iowa, Waukon**—C. H. Dravis will erect a modern brick business building in the spring, to replace present frame structure; Frank Molumby will erect a building also.

**Mich., Negaunee**—Joseph Lowenstein will erect a store building, 2-story.

**Mich., Negaunee**—Fire destroyed the Laughlin & Pearce business blocks; loss about \$35,000; insured at \$15,000.

**Minn., Albert Lea**—H. J. Harm, Oscar Subby and A. C. Erickson, propose to erect a 5-story office building, modern; cost about \$100,000.

**Minn., Bemidji**—J. Segal, owner of the Emporium, recently burned, will rebuild on much larger scale.

**Minn., Bemidji**—E. H. Jerrard, manager of St. Cloud Oil Co., will erect four large tanks here in the spring.

**Minn., Bemidji**—Fire damaged the model bakery about \$5,000; insured at \$3,000; Mrs. A. P. Henrionnet, owner.

**Minn., Bigelow**—F. E. Mason will erect a new fireproof building in the spring.

**Minn., Cedar Spur**—Store of Gus. Larson burned; loss \$3,000; insured at \$2,000.

**Minn., Duluth**—Contract will be let soon for a business block, by the P. G. Hanson Realty Co., 2-story.

**Minn., Fergus Falls**—The Fergus Falls Brewery Co. plans erection of a large modern artificial ice plant.

**Minn., Kellogg**—D. B. Lydon will remodel building recently purchased into post office.

**Minn., Madelia**—Farmers' Insurance Co. will erect a modern building in spring.

**Minn., Mapleton**—Borchert Brothers will erect a modern brick hardware building, 2-story and basement; plans to be prepared at once.

**Minn., Mapleton**—Frank Kuehl has let contract to J. B. Nelson Co., Mankato, for a bakery building, 25x75, 1-story and basement, foundation built to carry 2 stories; cost \$4,180; work to begin at once.

**Minn., Minneapolis**—Plans are being completed for a 1-story store building of 3 stores by O. K. Westphal, architect, N. W. building, for John D. Olson, Unique restaurant, 612



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The subject is such a big one—

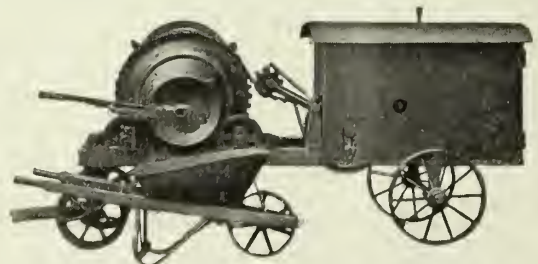
The claims of various manufacturers are so many and diversified that the question deserves exhaustive treatment—

The fact that a concrete mixer is a machine that **SHOULD** be purchased only once in a lifetime should cause the purchaser to pause and give it serious consideration—he should overlook nothing that will enlighten him. And so

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any kind—the machine that is the basic machine of all concrete operations and results. There is a free copy of it awaiting you—send for it and learn the truth. It's FREE.

It tells what a concrete mixer should be. It will open your eyes to many things concerning the most important machine that is used in concrete work of



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Hennepin; pressed brick, plate glass, galvanized cornice; 65x60, hot air heat, plumbing, wiring; owner takes bids.

**Minn., Paynesville**—F. A. Harris storage building burned, will rebuild at once.

**Minn., Roseau**—Druggist Loring is preparing to erect a business building, frame, iron sheeted.

**Minn., Thief River Falls**—A 3-story modern brick business building, will be erected by J. O. Lein and Alfred Heen of Grafton, N. D.

**Minn., Worthington**—A. J. Ward reports that a cement block building will be erected.

**Minn., Wood Lake**—Citizens' State Bank of Wood Lake incorporated, J. P. Hauck, L. P. Doliff and Erick Johnson, incorporators; will erect new building in near future.

**Mont., Anaconda**—R. S. Mentrum will have plans prepared for a modern business building.

**Mont., Billings**—Construction work will begin in the spring on the Berryman Brothers new \$10,000 brick building; contract to be let this week.

**Mont., Billings**—Fire damaged McKnap block about \$3,000.

**Mont., Billings**—Work will begin in about 30 days on the Stone-Ordean-Wells Co. building; contract to be let about March 1; 150x75; cost about \$50,000; R. H. Horr, treasurer-general manager.

**Mont., Butte**—Work will begin soon on the W. W. Kimball Co. building; 16-story, with attic and three basements; 122-foot frontage Wabash av. and 109 feet on Jackson blvd.; fireproof, modern throughout.

**Mont., Columbia Falls**—Fire destroyed the business section here; loss \$12,000; partly insured.

**Mont., Deer Lodge**—Fire damaged the Bonner Mercantile Co. building about \$3,000. W. C. Spottswood, manager.

**Mont., Great Falls**—Plans prepared by J. T. Levesque for remodeling of the Phelps block.

**Mont., Great Falls**—Fire destroyed hardware store of W. H. Hull, and saloon of Dave Greve; loss about \$15,000; partly insured.

**Mont., Havre**—The B. P. O. E. lodge No. 1201 of city plan to build a modern business block.

**Mont., Miles City**—W. B. Jordan & Sons Co. store burned.

**Neb., Anselmo**—People's State Bank will erect a modern bank building, soon, fireproof.

**Neb., Gering**—Mrs. Jennie Neeley may build modern brick business block.

**Neb., Gering**—Bradford-Kennedy Co. will rebuild and enlarge their office buildings, spring work.

**Neb., Grand Island**—Contract awarded to Kruse Bros. for erection of three store building for Wolbachs.

**Neb., Hastings**—Henry Reinders plans erection of a modern meat market building, spring work.

**Neb., Kearney**—Reported F. G. Keens will erect a two-story business block; concrete, modern, fireproof.

**Neb., Leigh**—Albert Busse will erect a brick building; John Metzger also will erect a brick building.

**Neb., Lodge Pole**—W. S. Schroll is planning to build store building.

**Neb., Oconto**—Geo. Erwin will erect building for his business.

**Neb., Lincoln**—Fire destroyed the A. D. Benway Furniture Co. store; loss about \$50,000.

**Neb., Palmyra**—Walter Barns will erect a modern brick building, 30x60; E. Granger, contractor.

**Neb., Sidney**—The John Deere Transfer house will erect a new building in early spring; 66x132, 1-story, reinforced concrete; Mr. Fudingsland, owner.

**Neb., Silver Creek**—Three new store rooms will be erected each 22x50, brick, 1-story, patterned after post office block.

**Neb., Valparaiso**—Frank Peterson will erect a modern store building in spring.

**N. D., Devils Lake**—Glerum block burned.

**N. D., Grand Forks**—Contract awarded to Melby & Standahl for new front in the Fisherman store.

**N. D., Hickson**—Two general stores burned; Wm. R. Welr and O. O. Gauslow, owners; total loss.

**N. D., Knox**—Fire destroyed the store building occupied by Larson, Steen & Co., loss about \$18,000, insured; will rebuild with brick or concrete.

**N. D., Mandan**—Albert Lanterman will build a modern brick business block, 2-story, 50x80.

**N. D., Mohall**—Ferguson Bros. to be known hereafter as Ferguson Hardware Co., will erect a modern brick building; 25x50, 1-story.

**N. D., Norwich**—Fire destroyed nearly entire business block in business district, including J. A. Lund's hardware store, A. D. Hanson's pool hall, C. E. Wacome's general store; loss about \$12,000.

**N. D., Olga**—J. B. Beauchamp general store, warehouse burned, insured.

**N. D., Ryder**—Chas. Lantz will begin erection of a hardware store building at once.

**N. D., Springbrook**—Large mercantile store of C. E. Ulrich burned; will probably rebuild.

**N. D., Tower**—General store A. J. Kiefer burned; loss \$8,500; insured at \$2,500.

**N. D., Wildrose**—A 2-story implement building will be erected here in spring.

**Sask., Whitewood**—General store of V. D. Etchegoyne burned; loss \$25,000; insured at \$10,000.

**S. D., Aberdeen**—Schaffer Bros. will erect a 3-story \$50,000 brick building in near future.

**S. D., Aberdeen**—Fire destroyed the old Beard block; loss about \$25,000; twelve business places being destroyed or damaged.

**S. D., Canova**—Plans have been made for complete rebuilding of the burned business portion of town; bank to build a modern bank building.

**S. D., Coleman**—Contract awarded to the Lyle Construction Co. for erection of new building, for the First National Bank of Coleman, terra cotta front, fireproof; work to start soon as plans are completed.

**S. D., Oldham**—C. B. Jensen store, implement warehouse, burned.

**Wis., Eau Claire**—Plans are being drawn for a modern 5-story building for the Hobbs Supply Co.; 44x125, with basement, concrete and steel.

**Wis., Madison**—Fire destroyed warehouse of the Gould, Wells & Blackburn Co., loss about \$125,000, insured; A. L. Blackburn, vice president.

**Wis., Milwaukee**—Bids will be received until Feb. 27, by Klug & Smith, consulting engineers, Mack block, for a 7-story and basement addition, to warehouse and office of John Pritzloff Hardware Co., 33 W. Water st.; brick and mill construction, 75x130, concrete foundation, 2 electric freight elevators.

**Wis., Sheboygan**—Contract awarded to W. C. Runge of Port Washington for erection of modern warehouse for the Farmers' Equity & Supply Co., concrete reinforced by steel.

**Wis., Wrightstown**—Schaeuble Bros. will erect modern brick building, 40x70, on site of old store building.

**Wyo., Powell**—Fire destroyed the business section of city, including; Elder Watson & Co.; L. L. Pearin, tailor; G. W. Cockrell, harness and second hand store; Powell Supply Co.; U. S. post office; The Little Shop; Judson restaurant; J. P. Wagoner, meat market; fully insured; loss \$50,000.

## BRIDGES

**Iowa, Belle Plaine**—Hearing held Feb. 11, 8 p. m., on the following bridges; Cedar township, 2 steel and 1 wood; Bruce township, 1 concrete; Monroe township, one concrete; Kane township, 1 steel; Iowa township, 5 concrete; LeRoy township, 1 concrete; Union township, 2 concrete; Iowa township, 1 concrete; Eldorado township, 4 concrete; Fremont township, 6 concrete; Florence township, 4 concrete; Harrison township, 1 wood; Taylor township, 3 concrete; Polk township, 1 wood; Eden township, 2 concrete; Homer township, 1 concrete; Eden township, 1 wood; Canton township, 1 wood, 2 concrete; Eden, 1 concrete; board of county supervisors, Benton county; W. E. Gilchrist, auditor.

**Iowa, Creston**—Following bids were received on bridge materials for 1915: Lumber, Standard Bridge Co., Omaha, Neb.; corrugated pipe, Midland Metal Manufacturing Co., Ottumwa, Ia.; reinforcing steel, Clinton Manufacturing Co., Clinton, Ia.; sand cement, and gravel were let to local concerns over the country. B. M. Breed, county auditor, Union county.

**Iowa, Muscatine**—Bill passed by congress permitting the Interstate Bridge & Terminal Co. to erect a bridge over the Mississippi river.

**Iowa, Primghar**—Hearing will be held Feb. 23, for construction of 25 bridges and culverts in county during 1915; J. B. Stamp, county auditor, O'Brien county.

**Kans., Attica**—Following bridges will be erected soon: concrete reinforced bridges, one 380 feet 9 spans; one 88 feet 4 spans; one 45 feet 2 spans; and 2 23 feet and 33 feet, 1-span each; for further information address, R. B. Hancock, chairman of board of county commissioners, Attica.

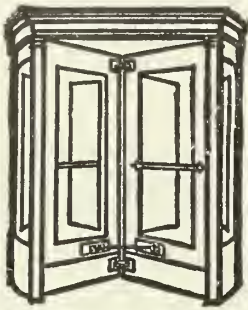
**S. D., Bonesteel**—A government bridge will be erected over Missouri river at Ft. Randall, road meeting will be held Mar. 2, to discuss proposition.

**Wash., Olympia**—A new concrete and steel bridge will be erected across the Des Chute river; cost \$10,000.

**Wis., Sheboygan**—Chicago & Northwestern Ry. Co. are having surveys made for new bridge.



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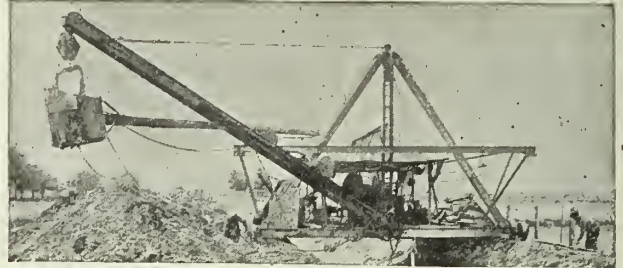
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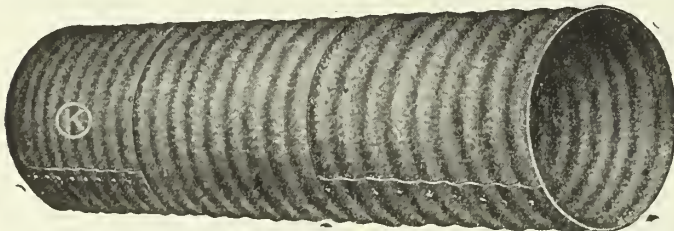
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Fireproof Doors  
and Shutters  
Mill Machinery  
Shafting Coupling  
Hangers, Collars  
Heavy Forgings



## BIDS WANTED.

**Iowa, Ida Grove**—Bids received until 4 p. m., Feb. 24, for bridges and culverts, concrete and steel; two bridges in Corwin township, one bridge in Logan township; three bridges in Grant township; one, Silver Creek township; one Blain township; two Galva township; one Hayes township; lumber, piling, cement, etc.; Richard Varne, county auditor.

**Iowa, Marengo**—Bids received until 11 a. m., Feb. 24, bridges and culverts according to plans and specifications on file at office of County Auditor Morris Williams; one 48 steel I-beam bridge with concrete roadway; seven steel I-beam, with concrete floor and abutments; 4 steel, I-beam, with concrete floor and abutments, 20-foot span; one pony truss, with concrete floor and abutment, 60-foot span, 16-foot roadway; one steel I-beam with concrete floor and abutments, 3 20-foot spans, 20-foot roadway; following culverts: two 4x3 concrete; three 5x4; six 4x4; three 6x3; two 7x6; two 3x2; one 5x3; seven 3x3; two 6x5; one 6x6; concrete box; three concrete retaining walls; total cost \$27,590; check 5 per cent.

**Minn., Aitkin**—Bids received until 1 p. m., March 8, for steel bridge with concrete floor, over the Holl river, Shovel Lake township; check 5 per cent; H. C. Beecher, county auditor.

**Minn., Long Prairie**—Bids received until 2 p. m., March 1, for two state bridges by County Auditor E. M. Berg; official advertisement in The Improvement Bulletin this week.

**Minn., Long Prairie**—Bids received until 1 p. m., March 1, for state bridge No. 1604, state road No. 1, Todd county, across Long Prairie river, two 60-foot spans, 18-foot roadway, concrete floor on concrete abutments; bids to include removal of old bridge; bridge No. 1657, across Partridge river, Todd county, Bertha township; superstructure, 20-foot span, 18-foot roadway, concrete floor on concrete abutments; plans and specifications at office of county auditor; E. M. Berg, or with state highway commissioner, St. Paul; check 5 per cent.

**Minn., Owatonna**—Bids will be received until 2 p. m., Mar. 9, for state bridge No. 1616, state road No. 5, Summit township, Steele county, superstructure of three 14-foot spans, 18-foot roadway, reinforced concrete floor, on reinforced concrete abutments, piers, pile foundation, also removal of old bridge; plans with County Auditor M. J. Parcher; also state highway commission, St. Paul, Minn.; check 5 per cent.

**Minn., Waconia**—Bids received until Feb. 28, 1 p. m., for reinforced culvert, 24 feet long, 8 feet wide, 6 feet high, in Carver county, state road No. 2; check, 5 per cent. J. B. Connolly, auditor.

**N. D., Bathgate**—Bids will be received until 2:30 p. m., April 6, for seven bridges, according to plans and specifications on file at office of county auditor, Pembina county, W. W. Felson.

**N. D., Hettinger**—Bids will be received until 3 p. m., March 8, for material for a 32-foot approach to steel bridge across the Cedar river; Walter F. Kelly, county auditor.

**Wis., Port Washington**—Bids received until Feb. 25, for 60-foot span, reinforced concrete bridge, Grand av., Port Washington; John Beeher, county clerk.

## CONTRACTS AWARDED.

**Iowa, Corning**—Contracts awarded as follows on bridge materials and supplies for 1915 in Adams county: W. D. Harman, Nodaway, 100 barrels cement, at \$1.40 per barrel; Dixon Lumber Co., 200 barrels cement at Corning, at \$1.40 per barrel; Nebraska Bridge & Supply Co., Omaha, 100,000 feet of oak lumber, board measure, at \$29.95 per 1,000, also 40,000 feet fir lumber at \$28.65, also 5,000 lineal feet piling in 10 and 30-foot lengths at 14c to 28c per foot; Dixon Lumber Co., 1½ tons nails at \$2.25 per 100 pounds; Wilson Concrete Co., Red Oak, 18 tons reinforcing steel at \$1.64 per 100 pounds, also 24-inch pipe at \$1.67 per foot, 30-inch pipe at \$1.90 per foot, 36-inch pipe at \$2.24 per foot, 42-inch pipe at \$2.85 per foot; Coon River Sand Co., Des Moines, sand at 25c per ton, gravel, ¼ inch and ¾ inch, at 90c a ton, ¾ inch to 1½ inches at 75c per ton, concrete mixture, 60 per cent gravel, at 55c per ton. All bids for corrugated pipe, cast iron and boiler pipe were rejected.

**Iowa, Marshalltown**—Contract awarded to the Fort Dodge Culvert Co. for year's supply of corrugated iron culvert in 12, 15, 18, and 24-inch sizes.

**Minn., Clementson**—Contract awarded to the Illinois Bridge Co., for bridge over the Rapid river here, steel; also for bridge at place where judicial ditches No. 13 and 20 join.

**Minn., Faribault**—Contract awarded to R. R. Thomas for repairing of 3d st. bridge, at \$1,158, other bid was, J. M. Thonet, at \$1,257.

**Minn., International Falls**—Contract awarded to the Illinois Steel Co., for bridge across Little Fork river, in Harrigan district (63-22), at \$5,990.

**Minn., Mora**—Contract awarded to Wausau Iron Works, Wausau, Wis., for bridge No. 1607, state road No. 2, and other state bridges, No. 1608 and 1632, at \$10,759; other bids were: M. A. Adams & Co., Minneapolis, Minn., \$10,994; Minneapolis Bridge Co., Minneapolis, \$11,900; Hewitt Bridge & Steel Co., Minneapolis, \$11,950; Hennepin Bridge Co., Minneapolis, \$11,054; Minneapolis Steel & Machinery Co., Minneapolis, \$11,395.

**Minn., St. Hilaire**—Contract awarded to the Northern Construction Co., for modern steel bridge over county ditch south of town; address Northern Construction Co., Thief River Falls.

**Neb., Central City**—Contract awarded to Contractors' Construction Co., Omaha, Neb., for materials for bridges in Merrick county, for 1915.

**Neb., North Platte**—Contracts will be let about April 1, for \$50,000 state aid bridge near here; designs prepared by Donald D. Price, Lincoln, Neb., state engineer, for a concrete structure and for a riveted truss bridge, latter to consist of 5 135 skew trusses, substructure to consist of four piers, composed of two 60-inch tubes, 25 feet long, 40-foot piles in each tube, abutment 20x24 or 29-foot in size, 16-foot roadway, concrete flooring; concrete bridge, 529 cubic yards concrete in substructure, nine piers, 4½ feet to 6 feet wide and 29 or 24 feet long, 16½ feet by 24 feet, abutments, sand and gravel foundation, on 30-foot wood piles; estimated cost \$12,000, superstructure to consist of 10 spans, skewed 50 feet, will require 1,180 cubic yards concrete, sand fill in arches, and 12-inch clay surface.

**N. D., Dickinson**—Contract awarded to Minneapolis Bridge Co., Minneapolis, for steel frame bridges for season 1915.

**N. D., Dickinson**—Contract awarded to Wheeling Corrugated Co., Minneapolis, for metal culverts, etc.

**N. D., Mayville**—Contract awarded to Jardine & Anderson for bridge across park, according to plans by Jardine & Anderson.

**Wash., Chehalis**—Contract awarded to Coast Bridge Co. of Portland for steel bridge of 110-ft span, across Newaukum river, also for 130-ft. span across same stream on road leading to Napavine; contract awarded to C. J. Huber to move old bridge near Phillips place to new site on south fork of Newaukum river.

**Wis., Chippewa Falls**—Contract awarded to the Iowa Bridge Co. for materials for bridge on Chippewa river, at \$8,920: for labor and repairs previous to paving or painting at rate of 37½c per hour.

**Wyo., Sheridan**—Contract awarded to Jack Gregg, Sheridan, at \$4,940 for one steel bridge over Powder creek; other bids were: J. U. Stout, Sheridan, \$4,949; Canton Bridge Co., Kansas City, \$5,497; Monarch Engineering Co., Fall City, Neb., \$5,858; L. C. Hunt, engineer.

## DRAINAGE AND IRRIGATION

**Alta., Glenwood**—Cochrane Irrigation Co., organized here; canal planned, 19 feet top and 8 feet bed, to water 3,00 acres, work to start next summer.

**Alta., Grassy Lake**—Mass meetings are being held to discuss irrigation.

**Iowa, Jefferson**—Engineer Melson made his report to the board of supervisors on the biggest single drainage proposition that has ever been considered in this county, ditch No. 101, in Scranton, Jackson, Greenbrier and Willow townships and part of Scranton, estimate of cost, \$133,000; number of tile which it is proposed to use is 160,000, or 32 miles of all sizes from 6-inch up to 42-inch. At the outlet of the 42-inch tile there will be an open ditch for more than a mile, the project finally emptying into Greenbrier creek, which is to be dredged. The cost of the 42-inch tile is estimated at \$7 per foot laid in the ditch, or \$115 per rod; supervisors will name a day for a hearing on the advisability of establishing the proposed improvement, probably within a month.

**Iowa, Nevada**—Bids in noon, Feb. 16, on Milford District 32; check, 10 per cent. F. E. King, auditor Story county.

**Iowa, Rockwell City**—Hearing March 9, on report of engineer on district 196.

**Iowa, Rockwell City**—Hearing March 9, on proposed grain-age district 199. R. B. Dixon, auditor.

**Minn., Aitkin**—County board established ditch 30, for 7,000 acres.

**Minn., Fairmont**—Bids on the judicial ditch 28 ranged from \$39,500 to \$48,000; bid of Antone Jepsen, Clear Lake, Ia., \$41,700. H. C. Nolte, auditor.

**Wis., Ladysmith**—Hearing Feb. 26, to organize Bruno Lake drain, for open ditch from Bruno Lake to Tulca Lake, to river near Flambeau lumber mill.





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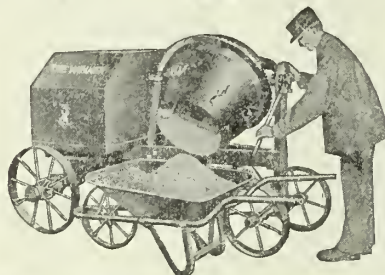
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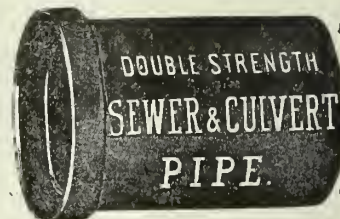
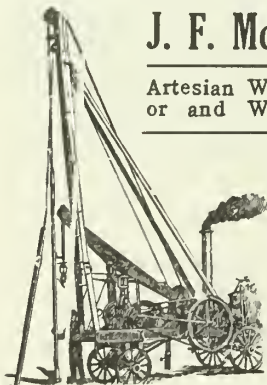
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**Minn., St. Paul**—House committee approved appropriation of \$5,000 to finish Mustinka state ditch.

#### BIDS WANTED.

**Kans., Kansas City**—Bids received until 10 a. m., Feb. 26, by the Kaw Valley drainage district board, for following improvement of Kansas river; excavation in channel to depth of 30 feet, about 1,000,000 cubic yards; each bid to be accompanied by cash for 5 per cent, or certified check to J. W. Silvers, treasurer, directors of Kaw valley drainage district.

**Minn., Ada**—Judge Grindeland set Feb. 19, for final hearing on judicial ditch 51; Wild River project.

**Minn., Buffalo**—Bids received until 2 p. m., March 20, on ditch 22, Wright county, main and two laterals, estimated cost \$2,049; check for 10 per cent; work not sold at letting advertised for Feb. 16; John A. Berg, auditor.

**Minn., Owatonna**—Bids received until 2 p. m., March 13, for judicial ditch No. 2, Steele county, main, ditch and three laterals, three branches; plans at office of County Auditor M. J. Parcher, Geo. A. Ralph, engineer in charge, 410 Shubert building, St. Paul; check 10 per cent; official advertisement in The Improvement Bulletin this week.

#### CONTRACTS AWARDED.

**Iowa, Logan**—Contract awarded to Hawkeye Tiling Construction Co., Webster City, at \$8,000, for opening ditch, Modale district, to Fred M. Crane, Omaha, for moving 31,000 yards dirt at 15c; repairs on Young ditch 19,000 yards at 20c.

**Minn., Beaudette**—Contract let to Geo. E. Brown, Litchfield, Minn., for ditch 27, 30 miles, near here, \$63,000; to be finished July, 1916.

**Minn., Bemidji**—Several big contracts awarded: judicial ditch 18 to International Falls Construction Co., at \$307,541, or 12½c per cubic yard, will drain 139,675 acres; No. 14, to Bemidji Drainage Co., \$158,968, or 13½c; No. 17 to E. Dahl & Co., Duluth, \$98,172, or 13c per yard; No. 20, to E. A. Dahl & Co., at \$51,843.

**Minn., Fairmont**—Contract awarded for judicial ditch 42, to J. S. Hanson Northwood, Iowa, at \$21,450; contract for 44, let to W. C. Markland & Co., Fairmont, at \$12,500; contract for 28, to Anton Jasson, Clear Lake, Iowa, at \$41,700.

**Minn., Stillwater**—Contract awarded to Scully Bieske, Clarion, Iowa, for judicial ditch 4, at \$16,495, work to begin in 60 days; A. A. Caswell, auditor, Anoka county; H. A. Nelson, auditor, Stillwater.

## WATER WORKS

**Iowa, Cresco**—Special city election will be held March 10, to vote \$10,000 bonds for additional land and erecting an elevated water tower; M. J. McArthur, city clerk.

**Iowa, Iowa City**—Cement stands will be built by the state university on east side of athletic field, and new one-quarter mile track will be completed.

\***Minn., Duluth**—City water department will purchase supplies costing \$90,000.

**Mont., Butte**—North Butte Co. is considering plans to build a concentrator, 6 miles west of Butte, near Silver Bow creek; 620 acres purchased.

**Mont., Fromberg**—City council may build water works system; reported that it will immediately employ an engineer to make preliminary survey and estimates on both pumping plant and gravity system.

**Mont., Great Falls**—Work on Sherburne storage dam will start about April 1; C. P. Williams, supervising engineer, United States reclamation service; may use gasoline tub boats for transferring material, also belt conveyor.

**Mont., Harlowtown**—City engineer reported to have been instructed to prepare plans for a water works extension; cost about \$15,000.

**Neb., Central City**—B. W. Benson, city engineer, has completed plans for extension to local plant; cost about \$20,000.

\***Neb., Columbus**—City council disposed of \$10,000 water works bonds for extension of water works.

**Neb., Maynard**—Special election will be held Feb. 16, to vote \$8,000 bonds for water works system.

**Neb., Sterling**—Albert Freitag of Grand Island, Neb., engineer, is figuring on engineering work and surveying for new water works system.

**Sask., Assiniboia**—Reported that ward No. 4 will probably construct a water works, to cost \$90,000.

\***S. D., Ardmore**—Board of trustees let contract to a Denver firm, subject to the voters, to build water works.

\***S. D., Oelrichs**—Town is agitating question of a water works system.

**Appleton, Wis.**—The Appleton city commission awarded the contract for furnishing 5,700 feet of cast iron water pipe in various sizes to the American Cast Iron Pipe Co., Birmingham, Ala., at \$22.50 per ton; for two tons of soft Omaha lead to Windsor Manufacturing Co., Milwaukee, at \$3.98 per cwt.

**Wis., Fond du Lac**—Water bonds in sum of \$305,650 were voted for water system; J. F. Hohensee, city clerk.

**Wis., Janesville**—Common council has authorized a bond issue of \$265,000 for purchase of plant of the Janesville Water Co.; transfer to be effective April 1.

#### BIDS WANTED.

for a concrete reservoir and appurtenances at Spring Lake for a concrete reservoir and appurtenances at Spring Lake pumping station; plans with city clerk, J. A. Parks. Check for 10 per cent.

\***Minn., Fairmont**—Bids received until 8 p. m., Feb. 25, for approximately 122,200 feet of 4-inch and 600 feet of 6-inch water mains with hydrants, etc.; plans at office of city clerk, H. B. Tuttle; check for 5 per cent. Official advertisement in the Improvement Bulletin this week.

**Minn., Minneapolis**—Bids will be received until 3 p. m., Feb. 25, for cast iron water pipe valves, hydrants, and corporation cocks, for city water works, plans at office of City Purchasing Agent Kossuth E. Alexander, 217 City Hall, for year of 1915; separate bids to be received on each kind of material, following checks to accompany each bid: water pipe, \$1,500; valves, \$100; hydrants, \$150; corporation cocks, \$25.

**Minn., St. Cloud**—Bids received until Feb. 16, 3 p. m., for supplies for water department; check 10 per cent; Geo. G. Magnuson, city clerk; official advertisement in the Improvement Bulletin this week.

**Minn., Stillwater**—Bids received until 6 p. m., March 2, for certain additions and improvements to village water supply; plans at office of Village Recorder Oscar Hunhke, also at office of Improvement Bulletin, Minneapolis, Minn.; certified check \$600; official advertisement in the Improvement Bulletin this week.

**Mont., Kalispell**—Bids will be received until 5 p. m., Feb. 24, for following material delivered f. o. b. Kalispell: two pumping units of 3,000 gallons per minute, valves, checks, suction discharge pipes and fittings; 1,815 feet 18-inch wood water pipe, a number of valves, elbows, wyes, and bends, extra banding for pipe couplings, 375 barrels Portland cement, approximately 12,356 pounds reinforced steel, all according to plans at office of City Clerk R. E. Rollins; check 5 per cent for each proposal; bids will also be received on the present electrical equipment in old pumping station; R. Pauline, mayor.

**S. D., Watertown**—Bids received until 2 p. m., March 1, for building sand filled dam across outlet Lake Kampeska, near Watertown; plans with P. W. Schoenberger, deputy game warden, Watertown; check for 10 per cent, bond for 50 per cent.

**Wis., Cameron**—Bids received until Feb. 26, 7 p. m., for 8-inch tubular well; W. W. Pieper, city clerk.

**Wis., West Bend**—Bids received until 7:30 p. m., Feb. 18, for 1,200 feet 6-inch and 300 feet 4-inch iron water pipe; address city clerk.

**Wis., Whitewater**—Bids received until Saturday Feb. 27, for 110-foot reinforced concrete reservoir roof; for further information apply to City Clerk A. N. Savee, Whitewater or W. G. Kirchoffer, engineer, Madison, Wis.

#### CONTRACTS AWARDED.

**Iowa, Clinton**—Contract awarded to Chas. Nolan of Cedar Rapids for drilling of well at \$4 per foot.

**Minn., Albany**—Contract awarded to J. F. McCarthy, Minneapolis, for drilling town well, at \$5.85 per lineal foot.

\***Minn., Albert Lea**—Contract awarded to S. Swenson Artesian Well Co., 258 Plymouth av. N., Minneapolis, for drilling 1,400-foot well for city.

**Mont., Baker**—Contract awarded to Security Bridge Co., at \$8,384, for laying water mains in improvement district No. 2.

\***Neb., Eagle**—Contract awarded to the Des Moines Bridge & Iron Co. for water works system. C. A. Norgren, engineer, Fairbanks-Morse, Omaha.

**Neb., Neligh**—Contract awarded to James Nash for new well at city pumping station.

**Manitowoc, Wis.**—The C. Reiss Coal Co., Sheboygan, Wis., has awarded the general contract for rebuilding and enlarging the coal dock and rigs at the Manitowoc dock, damaged by fire recently, to Mead, Morrison & Co., Boston.

**Wis., Prairie du Chien**—Contract awarded to Herman V. Steiner, for erection of new pumping station and pit, for the water works system.



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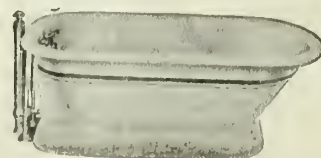


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## STREET AND ROAD WORK

**Iowa, Boone**—Hearing March 1 on curbing, guttering and paving certain streets; Otto Hile, city clerk.

**Iowa, Burlington**—Hearing Feb. 25 on grading, curbing and paving of South st.; Robt. Kroppach, city clerk.

**Iowa, Des Moines**—Hearing Mar. 24, for repaving, either No. 1 vitrified paving brick, sheet asphalt, or bitulithic or asphaltic concrete on a certain part of East Grand av.; also, for paving with No. 1 vitrified paving brick, or vertical fibre brick, or Portland cement concrete on various alleys; also for repaving with No. 1 vitrified paving brick, or sheet asphalt, or bitulithic, or vitrified fibre brick, on a certain part of E. Grand av.; also, for repaving with No. 1 vitrified paving brick, or vertical fibre brick, or sheet asphalt, or bitulithic, or asphaltic concrete on a certain part of E. Grand av.; also, for paving with No. 1 vitrified paving brick, or vertical fibre brick, or six inches of Portland cement on certain alleys; Horace Susong, city clerk.

**Iowa, Dubuque**—Work on the \$125,000 improvement of the Hawkeye highway, from Dubuque to Dyersville, will begin as soon as contracts for the same can be let, agreements having been reached on all disputed points between the federal and highway authorities; length of road, 26 miles; cost of steel and concrete viaducts at Center Grove and Julian crossings, \$428,850; road improvement work, \$90,000; road work in incorporated towns, \$6,000. W. B. Turlay, county engineer, Dubuque.

**Iowa, Iowa Falls**—Proposed to pave Stevens, River and Cedar sts. with concrete, asphalt or brick on concrete foundation, with 5,000 feet concrete curb and gutter, 5 to 18-inch; J. H. Farrington, city engineer.

**Iowa, Iowa Falls**—Hearing March 15 on 13½ blocks paving; address city clerk.

**Iowa, Keokuk**—Large amount of brick and concrete paving will be ordered in the spring, varying in width from 30, 36 to 66 feet in width. J. F. Winters, engineer, and W. S. Moorhead, mayor.

**Iowa, Marion**—City is considering proposition to compel railroad companies to pave 4th st., throughout the city; address city clerk.

**Iowa, Red Oak**—Hearing March 3, on grading and paving certain streets and alleys; Richard Roberts, city clerk.

**Iowa, Sioux City**—Hearing Feb. 27, on paving of 21st, 20th and Grandview blvds.; Paul J. Wells, city clerk.

**Iowa, Sioux City**—Sidewalks are being petitioned for by property owners on various streets in Kendon addition; address city clerk.

**Mich., Houghton**—Board of road commissioners of Keweenaw township will advertise for bids shortly for improvement of a highway connecting townships of Houghton and Allouez with Eagle River.

**Minn., Belview**—Automobile club will buy two more road drags.

**Minn., Duluth**—Bids on combination motor and sprinkler were as follows: Mutual Auto Co., 3-ton Universal truck, 1,400 gallons, \$4,100; Interstate Auto Co., Kissel truck, 1,200 gallons, \$4,500; Kenney Manufacturing Co., of Boston, Kenney truck, 1,000 gallons, \$6,200; same, 1,200 gallons, \$6,500; E. G. Hillard, White truck, 1,200 gallons, \$5,500; Galion Iron Works, Etnyre truck 1,000 gallons, \$4,750, 1,300 gallons, \$4,975, and 1,400 gallons, \$5,670.

**Minn., Minneapolis**—Following were bids for 175,000 square yards creosote paving blocks: on 3½-inch block, Kettle River Co., is low bidder at \$1.3225 per yard; on 4-inch blocks, Republic Creosoting Co. is lowest at \$1.4925 per yard.

**Mont., Butte**—Reported city is considering paving portion of Front st. with creosoted blocks; address city clerk.

**Mont., Lewiston**—Plans being prepared by city engineer for about 40,000 square yards in business section; address city clerk.

**Neb., Alliance**—Civil Engineer Knight estimates work of paving, curb and gutter proposed, as follows: 18,168 feet straight curb, \$45,450; 1,680 feet gutter, \$678; 600 feet alley crossings, \$480.

**Neb., Norfolk**—Plans have been completed by City Engineer Tracy for paving of 3d st.; definite action soon; probably concrete. Address city clerk.

**Neb., Omaha**—City council expects to pave 29th st. from Q to R, and 33d av. from Q to Y sts.; Perry Wheeler, city clerk.

**N. D., Bismarck**—Preliminary steps taken for large amount of grading in the city; R. H. Thistlethwaite, city auditor.

**Wash., Bellingham**—Construction contemplated of 5½ miles paving, 16 feet wide, with 2½ inches asphalt on Silver Beach and Geneva road; cost \$125,400; address county clerk.

**Wash., Kelso**—A survey of the proposed state road from here to the coast at Ilwaco is being made by Charles I. Signor, an engineer representing the state road department; Wahkiakum county voted \$75,000 for this project at the last election.

**Wash., Spokane**—Plans completed or nearly so on 11½ miles Palouse highway, Rockford to Waverly, at cost of \$150,000 surfaced with asphalt macadam; and for 4 miles Inland Empire highway, Dennison to Deer Park, cost \$40,000; surfaced with asphalt macadam.

**Wis., Black River Falls**—Material not yet decided on for 1½-miles paving, work to be started in the spring; J. J. McGillivray, mayor.

**Wis., Delavan**—Property owners on Walworth av. have petitioned for three blocks of asphaltic concrete paving; address city clerk.

**Wis., Janesville**—Several stretches of concrete highway will be constructed in Rock county during the coming season. Howard W. Lee, county clerk.

**Wis., Manitowoc**—Cement curbs and gutters have been petitioned for on Hamilton st., between 12th and 14th sts.; address city clerk.

**Wis., Menasha**—City will probably pave 1st st. from Manitowoc to Tayco st., and material to be used is being discussed; address city clerk.

**Wis., Sheboygan**—Reported bids are being asked for on concrete paving for 8 blocks on N. 4th st. until Feb. 26; address city clerk.

**Wis., Sparta**—Street committee getting ready to ask bids for paving on S. Court st.; brick paving, concrete curb and gutter; about 2,982 lineal feet combination curb and gutter, 41,333 square yards brick paving, 1,390 cubic yards grading, 196 lineal feet concrete headers; address city clerk.

**Wis., Superior**—Commissioner F. C. Tomlinson, head of the street department, has prepared resolution for paving of 13th st. from Hammond to Grand av.

**Wis., Superior**—City is contemplating paving of Weeks av. from 4th st. to Belknap; F. C. Tomlinson, commissioner.

**Wis., Superior**—City commission ordered paving of Belknap st., from Clough av. east to W. 7th st.; plans will be prepared by board public works, and bids called for on sheet asphalt, asphaltic concrete and reinforced concrete; address city clerk.

**Wis., Wausau**—Council has taken preliminary action for paving of Forest st. from 3d to 6th, and Grand av. from Forest to Stroller's Lane; to vitrified brick on macadam foundation, 42 feet wide, concrete curb on each side; address city clerk.

**Wis., West Salem**—Blue prints have been ordered for proposed improvements of Main and Leonard sts., concrete paving, curb and gutter. S. W. Brown, village clerk.

### BIDS WANTED.

**Iowa, Cedar Rapids**—Bids received by L. J. Storey, city clerk, until 10 a. m., Feb. 26, for construction of river wall, sidewalks and stairs of reinforced concrete and piling, approximately 650 lineal feet, 26 feet high; check for \$1,000.

**Iowa, Cedar Rapids**—Bids will be received by city clerk about March 10, for about \$200,000 worth of paving; asphaltic concrete, creosoted blocks, brick block, etc.; 4-inch and 6-inch concrete foundation; curb and 3-foot gutter; T. F. McCauley, city engineer.

**Iowa, Clinton**—Bids received by Frank W. Leedham, city clerk, until 8 p. m., March 9, for grading, draining and paving with a 1-course concrete paving of alleys in blocks 4, 6 and 15, requiring in all 3,676 square yards paving, 7 catch basins complete, 70 lineal feet 10-inch c. b. pipe, 8 cubic yards excess concrete, etc.; check for \$500.

**Iowa, Keokuk**—Re-advertisement—Bids received by county auditor until 10 a. m., Feb. 23, for cement to be used by Ice county for the year 1915; former bids, made by Universal Portland Cement Co., Chicago; S. & J. C. Atlee, city, and Hawkeye Lumber Co., city, all rejected as being too high.

**Iowa, Manchester**—Bids received by T. Wilson, city clerk, until noon, March 1, for curbing and guttering about 15,300 feet; check for \$500.

**Kan., Holton**—Bids received by C. E. Mitchell, city clerk, until 2 p. m., Feb. 26, paving on New York and Pennsylvania avs. and 4th and 5th sts.; either vitrified paving block, verticle fibre paving block, or asphaltic concrete, each on 5-in. concrete base; plans by Worley & Black, engineers, Reliance building, Kansas City, Mo.; plans on deposit of \$10.

**Minn., Big Falls**—Bids received by L. A. Ogaard, engineer, until 2 p. m., March 4, for furnishing 3,500 pieces of corduroy for state rural highway No. 9.

**Minn., Duluth**—Bids received by R. Murchison, commissioner, until 10 a. m., Feb. 23, for 400 yards sandstone paving blocks, f. o. b. Duluth; check for 10 per cent.

**Minn., Duluth**—Bids received by O. Halden, county audi-



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tor, until 2 p. m., March 5, for construction of 3 miles of the town line road and 2 miles of the Leander road.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, purchasing agent, until 3 p. m., Feb. 24, for approximately 10,000 lineal feet of granite curb, and approximately 5,000 lineal feet sandstone curb; check for \$150 and \$100, respectively.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 1, for 45,000 sandstone paving blocks and 24 sandstone drip catch basins; also, for 110,000 No. 1, vitrified small paving brick, 8,000 No. 1, vitrified large paving brick, 200,000 No. 2 vitrified paving blocks; 60,000 cement paving blocks, and 235,000 sewer brick; also, for 700 square yards 4-inch creosoted paving blocks, 1,700 square yards 3½-inch creosoted paving blocks; also, for 1-200 cubic yards lime stone dust, 7,000 cubic yards crushed rock, 41 cars crushed granite, 60 tons limestone dust for asphalt mixture; bond for 20 per cent or check for 10 per cent, on each bid.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 1, for 580,000 feet lumber for the year 1915; also, for 2,000 barrels cement; also, for 3,000 cubic yards, asphalt sand and 2,000 cubic yards coarse screened sand and 140 cubic yards bank run sand; bond for 20 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 1, for 800 tons trinidad asphalt, 17 cars asphaltum oil, 100 tons residuum, 120,000 pounds cement in barrels, 52,000 pounds roofing pitch in barrels, 53,000 pounds No. 1 tarred felt; bond for 20 per cent or check for 10 per cent of bid.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 1, for grading and improvement of Ivan Way, Glen Terrace, Barrett st., Ivy st., Orange st., alley in block S, Summit View addition, Finn av., Cleora st.; check in each case for 10 per cent.

**Minn., Winona**—Bids received by C. W. Anding, auditor, Winona county, until 2 p. m., March 23, for improvement and construction of state rural highways in Winona county as follows: highway No. 85, amounting to \$162,540; No. 86, \$109,504; No. 87, \$48,678; No. 88, \$32,577; No. 89, \$17,844; No. 90, \$17,164; No. 91, \$50,725; No. 95, \$23,546; No. 96, \$46,777; work includes clearing, grubbing, excavation, turnpiking, macadam, brick and concrete work, masonry, tiling, bridges and culverts, etc., but not all in every job; separate bids on each job; check for 10 per cent; plans and specifications on deposit of \$20.

**Neb., Omaha**—Bids received by Thos. J. Flynn, city clerk, until 9 a. m., Feb. 23, for artificial stone walks, brick tiling and white pine sidewalks.

**N. D., Cando**—Bids received by F. F. Vaughn, auditor, Towner county, until 9 a. m., Feb. 24, for all metal road culverts that may be required for the year; check for \$1,000.

**Wis., Port Washington**—Bids received by John Bichler, county clerk, until Feb. 25, for grading and concrete paving on Cedarburg plank road, consisting of 8,600 lineal feet of grading and 14,250 square yards of concrete paving and two reinforced concrete box culverts 55 cubic yards; also for one 10 and one 12-foot concrete slab culvert on same road; also for 60-foot span reinforced concrete bridge on Grand av., city of Port Washington.

**Wis., Sturgeon Bay**—Bids received by August Moeller, highway commissioner, until 10:30 a. m., March 2, for crushed stone on a large amount of highways as far as the money will go in the several towns included.

**Wis., Watertown**—Bids received by board of public works until 2 p. m., March 9, for grading and paving with concrete 8th st., from Main st. to Western av.; excavation, 1,507 cubic yards; combined curb and gutter, 3,735 lineal feet; reinforced concrete paving, 5,150 square yards.

**Wis., Waukesha**—Plans in progress for asphalt macadam paving on 3 to 4 blocks on Beechwood av.; address Wm. Powrie.

#### CONTRACTS AWARDED.

**Iowa, Carroll**—Contract to A. Jaicks Co., Kansas City, Mo., for 30,525 additional square yards paving, concrete base with 2-inch asphalt surface, at \$58,702; there were upwards of a dozen bidders; work to begin as soon as spring opens.

**Iowa, Chariton**—Contract to J. E. McDonald, R. F. D. No. 6, city, for road construction in English township.

**Iowa, Emmetsburg**—Contract to Zitterell & Sullivan, Webster City, for 40,000 square yards paving at \$101,021; Aetna Engineering Bureau, engineers, 17 N. La Salle st., Chicago.

**Minn., Bemidji**—Contract has been let to Dahl & Co., Duluth, for a state rural road No. 32, known also as the Elwell road from Clementson to Warroad, at \$101,668; grade and surface with gravel.

**Minn., Menasha**—Contract to Hultan & Bergstand for cor-

duroy across Kettle River near Wolf Lake, to be 24 feet wide, 12 rods long and 3 feet high.

## SEWER WORK

**Ida., Lewiston**—Council has adopted plans and specifications for sewer district, estimated to cost \$10,635; address city clerk.

**Iowa, Cherokee**—Street commissioner ordered to put in sewer in block 32, Plair's addition; address city clerk.

**Iowa, Fort Dodge**—Bids for culverts all rejected, approximate cost \$3,000; ready for bids again early in March; J. L. Hanrahan, county auditor.

**Iowa, Jefferson**—Resolution of necessity being published for extension to Jefferson sanitary sewer district No. 1; W. E. Thomas, city clerk.

**Iowa, Onawa**—City has decided to build sewer system that will cover entire town and cost approximately \$60,000; bids will soon be advertised for; Bruce & Standeven, engineers, Bee building, Omaha. Address city clerk.

**Iowa, Oskaloosa**—Plans and estimates on sewage system and disposal plant have been completed by City Engineer Bridges, and it is probable that definite action will be taken the coming spring; probable cost, \$15,000. Address city clerk.

**Iowa, Webster City**—Plans approved and bids probably taken soon on extension of Division st. sewer. Address city clerk.

**Minn., Wadena**—Engineer L. A. Larson has submitted plans for sewers system, as revised; these put cost at \$42,251, about \$10,000 less than the first estimate; storm sewers in business district and sanitary sewers in residence section; 3,700 feet brick sewer, 36-inch, 1,575 feet 30-inch, tile sewer, 2,280 feet 12-inch sewer, 1,520 feet 12-inch, tile sewer; septic tank and flush; Jos. H. Rice, village clerk.

**Mont., Helena**—Planned to expend \$64,000 the present year for sewers; J. D. McLeod, city engineer.

**Wash., Tacoma**—City engineer authorized to prepare plans for sanitary sewers on A and B sts., about 3-4 of a mile; costing \$20,000.

**Wis., Grand Rapids**—Petition to extend water and sewer construction three blocks further south, and for sewer and water extensions on 12th and 13th avs. north from Grand av. to Fremont st., both referred. Address city clerk.

#### BIDS WANTED.

**B. C., Vancouver**—Bids received about March 1 for construction of the Clark Drive sewer, estimated to cost \$150,000; address secretary, Vancouver district joint sewerage recently organized by Richard Frank, J. E. Wendt, O. W. and drainage board.

**Iowa, Mason City**—New bids received by Geo. E. Frost, auditor, Cerro Gordo county, until March 1, for 2,000 to 4,000 feet 12-inch and 4,000 to 10,000 feet 15-inch corrugated culverts; R. E. Robertson, county engineer.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 1, for 100 manhole frames and covers, 40 round catch basin frames and covers, 40 square catch basin frames and covers, 60 square catch basin frames, 30 square catch basin lids, 20 hooks; bond for 20 per cent or check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 1, for a sewer on Daly st.; check for 10 per cent; also at same time, for a sewer on James st.; check for 10 per cent.

**Mont., Butte**—Bids received by John C. Driscoll, city clerk, until 5 p. m., March 17, for 13 miles of sanitary sewers for the south side, 8, 10 and 12-inch; check for 10 per cent; plans and specifications from commissioner of public works on payment of \$20 deposit; W. J. Flood, commissioner.

**Wis., Waukesha**—Bids received about March 1, on 4,000 feet 24-inch storm sewer and 3,000 feet 8 to 12-inch sanitary sewer; Wm. Powrie, city engineer.

**Wis., Whitewater**—Announced bids will be asked for about March 1, on disposal plant and outlet and about 1½ miles sewers; W. G. Kirchoffer, engineer, Madison, Wis.; H. R. Charles, chairman, committee on sewers.

#### CONTRACTS AWARDED.

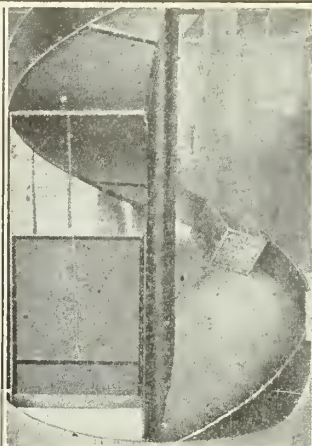
**Minn., Virginia**—Contract to C. C. Butler for double strength 36-inch sewer pipe delivered on the job at \$3.15.

**Ore., Astoria**—Contract reported awarded to Washington Brick, Lime & Sewer Pipe Co., Spokane, Wash., for furnishing 4 to 30-inch sewer pipe at \$20,000, for a 5-mile trunk sewer; K. Sanset, contractor.

**Wis., Manitowoc**—Contract to W. O. Bahr, city, for the Franklin and 13th st. sewers, at \$17,880; other bidders were: H. A. Pitz, city, \$18,354; Gray-Robinson Co., city, \$18,935.

**Wis., Merrill**—Contract to Thornton Brothers, St. Paul, Minn., for construction of the 1915 unit of the main sewer system, at \$32,000.





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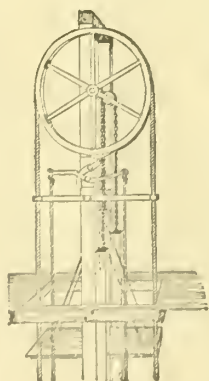
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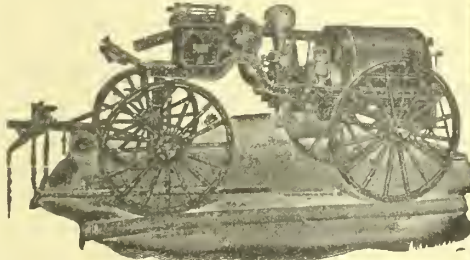
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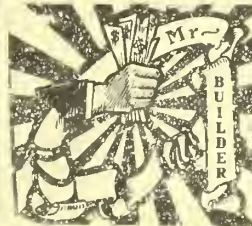
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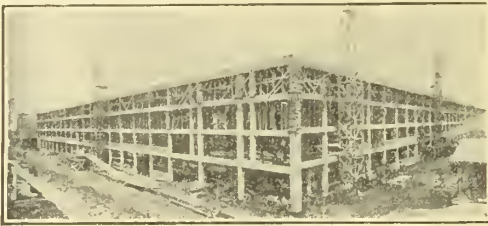
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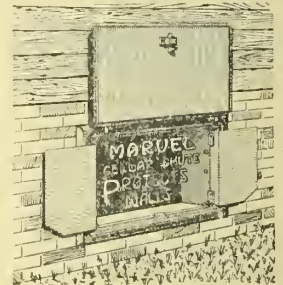
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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., February 27, 1915.

Number 13

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Haakinson & Beatty Co., Sioux City, Iowa

N. W. Concrete Steel Co., Minneapolis, Minn.

Minneapolis Steel & Mach. Co., Mpls., Minn.

Northwestern Steel & Iron Works, Eau Claire, Wis.

St. Paul Foundry Co., St. Paul, Minn.

## CORNICES.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Berger Mfg. Co., Minneapolis, Minn.

Griffin & Boehme, St. Paul, Minn.

F. V. Haverland, Minneapolis, Minn.

Milwaukee Corrugating Co., Milwaukee, Wis.

Minnesota Roofing & Cornice Works, St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

H. C. Thomas & Bro., La Crosse, Wis.

## CORRUGATED IRON, ETC.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Avery Steel & Iron Co., Minneapolis

Berger Mfg. Co., Minneapolis, Minn.

Corrugated Bar Co., St. Paul, Minn.

American Bridge Co., Minneapolis, Minn.

## CONCRETE REINFORCING.

Berger Mfg. Co., Minneapolis, Minn.

Inland Steel Co., St. Paul, Minn.

N. W. Concrete Steel Co., Minneapolis, Minn.

## CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Ellis Woolman, Minneapolis, Minn.

## CULVERTS.

Berger Mfg. Co., Minneapolis, Minn.

Biesanz Stone Co., Winona, Minn.

Gallon Iron Works, Minneapolis, Minn.

Klauser Mfg. Co., Duquque, Iowa

Minneapolis Steel & Mach. Co., Mpls., Minn.

Fowler & Pay, Mankato, Minn.

General Western Material Co., Waterloo, Ia.

Kettle River Co., Minneapolis, Minn.

Klauser Mfg. Co., Duquque, Ia.

Mantorville Stone Co., Mantorville, Minn.

New Ulm Stone Co., New Ulm, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Wildell Co., Mankato, Minn.

MINNEAPOLIS, MINN.

DEADENING MATERIAL.

Cement Tile Machinery Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn.

Minneapolis, Minn., and Milwaukee, Wis.

Northern Insulating Co., St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Union Fibre Co., Winona, Minn.

## DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

## DITCHING MACHINES.

Bay City Dredge Works, Bay City, Mich.

United Iron Works, Springfield, Mo.

## DREDGES.

Bay City Dredge Works, Bay City, Mich.

## ELECTRICAL ENGINEERING.

Beck Electrical Construction Company, Minneapolis, Minn.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

## ELECTRIC MOTORS AND SUPPLIES.

Beck Electrical Construction Company, Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Sterling Electric Co., Minneapolis, Minn.

## ELEVATORS AND ENCLOSURES.

Kimball Bros. Co., Council Bluffs, Iowa

Gust Lagerquist, Minneapolis, Minn.

Lee & Hoff Mfg. Co., St. Paul, Minn.

Frank A. Pigeon, Minneapolis, Minn.

## ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

## ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.

Walter H. Flood, Chicago, Ill.

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Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

## INSURANCE.

Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.

Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Des Moines Structural Steel Works.....Des Moines, Iowa

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
J. J. Voggenreiter Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co. & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....St. Paul, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co.....Chicago, Ill.

## LIME.

General Western Material Co.....Waterloo, Ia.  
Fowler & Pay.....Mankato, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Lenders-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co.....Superior, Wis.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

## MANTELS-GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
W. S. Nott Company.....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation.....Iowa City, Iowa  
Standard Salt & Cement Co.....Duluth, Minn.

## MUNICIPAL CASTINGS.

Davenport Mach. & Fdy. Co.....Davenport, Ia.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Davenport Machine & Foundry Co.....Davenport, Ia.

Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....St. Paul, Minn.

Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn.  
Jacksonson Mineral Paint Works.....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co.....New York, N. Y.

## PIPE-CAST IRON.

American Cast Iron Pipe Co.....Minneapolis, Minn.

## PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PLASTER-WALL.

Fowler & Pay.....Mankato, Minn.  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## PLASTERING-ORNAMENTAL.

Monarch Co.....St. Paul, Minn.

Roy Curtis.....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co.....Minneapolis, Minn.

## PLASTIC ORNAMENTS.

Monarch Co.....St. Paul, Minn.

K. F. Lott & Co.....Mpls. and St. Paul, Minn.

## PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co.....Chicago, Ill.

Crown Iron Works Co.....Minneapolis, Minn.

## PLUMBING AND HEATING JOBBERS.

National Mfg. & Supply Co.....Mpls., Minn.

## REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works.....Minneapolis, Minn.

Russell Grader Mfg. Co.....Minneapolis, Minn.

## ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co.....Duluth, Minn.

Minnesota Roofing & Cornice Works.....St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.

Scribner-Libby Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.

Selden Roofing & Manufacturing Co.....Minneapolis, Minn.

## ROOFING-METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Duluth Corrugating & Roofing Co.....Duluth, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

La Crosse Steel Roofing & Corrugating Co.....Minneapolis, Minn.

W. S. Nott Company.....St. Paul, Minn.

St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.

N. W. Roofing, Cornice & Stamping Works.....Minneapolis, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Barrett Mfg. Co.....New York, N. Y.

Biesanz Stone Co.....Winona, Minn.

Corrugated Bar Co.....St. Paul, Minn.

General Western Material Co.....Waterloo, Ia.

John Leslie Paper Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.

Northland Pine Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## ROOFING AND SIDING-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn.

## SAND AND GRAVEL.

Humboldt Sand & Gravel Co.....Humboldt, Ia.

Mason City Sand & Gravel Co.....Mason City, Ia.

## SHINGLES-RUBBER.

W. S. Nott Company.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co.....Winona, Minn.

General Western Material Co.....Waterloo, Ia.

## SASH AND DOORS.

Baxter Sash & Door Co.....Duluth, Minn.

Carr-Cullen Co.....Minneapolis, Minn.

Osgood & Blodgett Mfg. Co.....St. Paul, Minn.

Scott-Graff Lumber Co.....Duluth, Minn.

Northland Pine Co.....Minneapolis, Minn.

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co.....Sioux City, Iowa

Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.

Lehigh Sewer Pipe & Tile Co.....Fort Dodge, Iowa

Northwestern Lime Co.....St. Paul, Minn.

Plymouth Clay Products Co.....Pocahontas, Ia.

Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## SHADE ADJUSTERS.

Wm. J. Work.....St. Paul, Minn.

## SHEETS-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa

Inland Steel Co.....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.

Avery Steel & Iron Co.....Minneapolis, Minn.

Crown Iron Works Co.....Minneapolis, Minn.

Berger Mfg. Co.....Minneapolis, Minn.

General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa

K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Haakinson & Beatty Co.....Sioux City, Iowa

Peerless Marble & Tile Co.....Minneapolis, Minn.

Twin City Tile & Marble Co.....Minneapolis, Minn.

## SKYLIGHTS.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Haakinson & Beatty Co.....Sioux City, Iowa

Krieger-Jamar Co.....Duluth, Minn.

St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co.....Minneapolis, Minn.

W. S. Nott Company.....Minneapolis, Minn.

## STEEL-BARS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa

Inland Steel Co.....St. Paul, Minn.

Twin City Tile & Marble Co.....Mpls., Minn.

## STONE.

Babcock & Wilcox.....Kasota, Minn.

Biesanz Stone Co.....Winona, Minn.

Breen Stone Co.....St. Paul, Minn.

Edw. Buehler Co.....Cedar Rapids, Ia.

Fowler & Pay.....Mankato, Minn.

Kettle River Co.....Minneapolis, Minn.

Duluth Cut Stone Co.....Duluth, Minn.

Mantorville Stone Co.....Mantorville, Minn.

New Ulm Stone Co.....New Ulm, Minn.

Pioneer Granite Co.....St. Cloud, Minn.

Sauk Rapids Granite Co.....Sauk Rapids, Minn.

Wm. Penn Stone Co.....Minneapolis, Minn.

The Whidell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis, Minn.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Inland Steel Co.....St. Paul, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa

## TANKS-STEEL.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis, Minn.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## TERRA COTTA.

Belt Line Brick Co.....Mpls. and St. Paul

General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa

Hydraulic Press Brick Co.....Minneapolis, Minn.

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The Monarch Co.....St. Paul, Minn.

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Hydraulic Press Brick Co.....Minneapolis, Minn.

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Crane & Ordway.....St. Paul, Minn.

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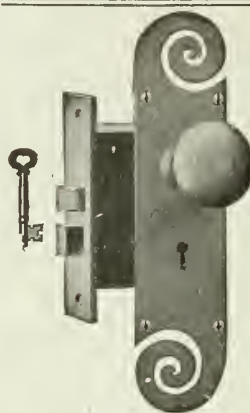


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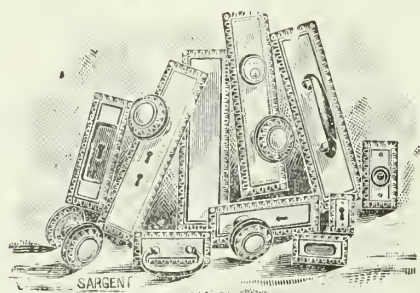
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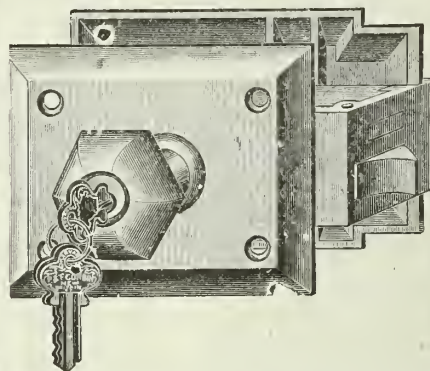
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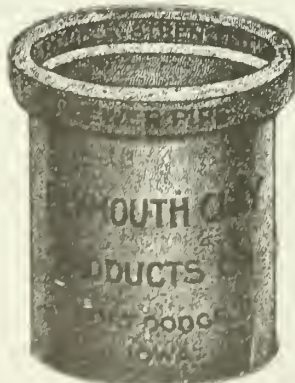
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, FEBRUARY 27, 1915

NUMBER 13



## EDITORIAL



O. L. COLBURN, Editor

### A LIVE TOPIC AT THE ENGINEERS' MEETING.

There was one subject discussed at the annual meeting of the Minnesota Surveyors and Engineers society in St. Paul last week, which interested actively every member present. It was, virtually, how far should a state university allow its professors to go in engaging in private practice as engineers, and competing with the members of the profession in the state who do not have a state salary to rely on, or the advantage of the prestige of a university professorship? Members of the faculty of the engineering college of the university of Minnesota were invited to attend the meeting and furnish information about this growing private business of the educators; also to explain the connection between the university's municipal information bureau and the League of Minnesota Municipalities. This league has undertaken to furnish engineering services to cities and towns in the league and has made a definite start in this service by announcing a tentative list of engineers who could be employed. These are all at the college of engineering of the state university.

Private business interest, private enterprise, the desire of engineers engaging in practice in Minnesota, to get a living thereby, asserted themselves to such an extent that the professors present to shed light became virtually witnesses for the defense, sharply questioned by numerous members of the society. It was shown by the university representatives present, Professors Bass and Price, that the university's municipal information bureau belonged to that institution; but that the League of Minnesota Municipalities just happened to appear to be connected with the university from the fact that one of its professors, Mr. Price of the bureau, was secretary of the league. In defense of the position taken in suggesting university engineers for engagements as consulting engineers for the municipal work of cities and towns which are members of the league, it was stated that the league was creating business by getting towns to engage expert aid which might not otherwise do so. So far as could be gathered from the discussion the educators did not think there was any question of the right to engage in private practice when a state school employs an instructor with the understanding that he shall make up for the shortcoming of a comparatively small salary by getting outside business as consulting engineer. Such work offered good opportunities for the instruction of the students in the professor's classes. Questions and discussions began to get rather peppery in several instances, and then the danger was averted by a motion, adopted, thanking the professors for responding to the society's invitation and giving them much interesting information. Later a committee of the society was appointed to co-operate with officers of the league of Minnesota cities and towns on the selection of engineers to be recommended by the league to its members. Probably one result will be the appearance of other names on the list than those of engineers connected with the university.

Through all the discussion ran the feeling, fair and proper, that the state university should be careful in encroaching on the field of private enterprise, on the rights of engineers seeking business here, and naturally regarding municipal work among their best opportunities. Such a wholesale bid for municipal work as the league seems to be making naturally roused more than ordinary feeling. It was a sort of last straw on a load of concern over business prospects—concern due to activity in the direction of the university, noted by engineers in private practice, who could not use stationery of the university of Minnesota. But we be-

lieve that the trouble will be settled now and a square deal for all effected. We do not believe the state university intends to graduate engineers and at the same time take business away from them.

The main American principle involved, and protected probably by the appointment of the society's committee to confer with the league's officers, is liberty—freedom to use ones' resources for getting on in his work without any unnecessary interference by governments or public institutions. Incidentally the question was involved: Is it not better to have a state league of cities and towns entirely independent, and not tied up to or intimately related to the state university?

### SAN FRANCISCO'S ARCHITECTURAL BUREAU.

In this column reference has been made to the recent change by the city of San Francisco from employing a city architect to getting competitive plans. A letter from the Bureau of Architecture, Department of Public Works, San Francisco, indicates that the change is not accompanied by a complete abandonment of the bureau. It says: "However, within the last few months the conduct of the architectural bureau has been somewhat revised to the extent that the larger and more important buildings have been and are being placed in competition, inviting private architects to compete for the architectural commission. Smaller work and minor items are still taken care of by draftsmen in the bureau."

### THE TRADES COMMISSION.

President Wilson has named the Trades Commission. The broad purpose of the commission is to prevent persons, partnerships or corporations, except banks and common carriers, from using unfair methods of competition in commerce. Whenever the commission has reason to believe that any unfair method of competition is being used, it is authorized to issue a complaint against the suspected offender and fix a time for a hearing. Individuals or corporations so cited are given the right to show cause why an order should not be issued to show cessation of such conditions. If such orders eventually are issued and violations complained of are not stopped, the commission may apply to the Circuit Court of Appeals of the United States for enforcement of its order. Judgments of the court would be subject to review by the Supreme Court. The commission also is given power to compile information and make investigation concerning the organization, business conduct, practices and management of corporations. It also is empowered to investigate trade conditions with foreign countries and report to Congress with recommendations. In connection with this feature of the work, President Wilson, in a recent speech, indicated that the committee could do the work of a tariff commission.

Legal opinion is, in brief, that the results of the work of the trade commission depend on interpretation of the act, or the letter of the law creating it. If arriving at what is fair and what is unfair practice, is measured by judicial standards, the commission would as an administrative agency have no power over trade competition beyond investigation preliminary to judicial action and subsequent supervision of judicial decree. Hence it is apparent that one of two situations exists depending upon the construction of the act by a literal application of its language. The court may create and give into the hands of five men a power over business unlimited by law and despotic in principle. On the other hand if the law is interpreted "in the light of reason" no final step has been taken and business will for the time being be governed by the principle that industry is entitled to the proceeds of its risks and labor. Whatever may be the judicial interpretation of the act it is certain that the American people have not consciously assented to a social revolution, a relapse into absolutism.



### A FEW POINTS OF LAW OF INTEREST TO CONTRACTORS.

A contract with a minor is void.

The law compels no one to do impossibilities.

It is fraud to conceal a fraud.

A signature with a lead pencil is good in law.

A returned check is not a receipt; and a receipt is not always conclusive.

A principal is responsible for the acts of his agent.

An oral or "word of mouth," agreement must be proved by evidence, but a written agreement proves itself. This is why general contractors should not be expected to take bids orally. They should get written bids.

### SKYLIGHT GLASS.

Skylight glass that will not drip water is the result of a new and practical application of an old, familiar scientific principle—capillary attraction. The glass is designed for skylights in factories, museums, operating rooms, or other locations where a drop of water condensing on the skylight and falling off might do much damage. The glass is ribbed, with eight ribs to the inch; and the form as well as the spacing of the ribs is designed to make the greatest possible use of capillary attraction. A drop of water condensing on the glass is held there strongly. A very slight slope of the skylight will make the drop slide off slowly on one side into a gutter; and accordingly the glass is installed with such a slope.

### SPECIFICATIONS FOR STUCCO "STIPPLE-FINISH."

The question often arises on the part of the builder who is making use of stucco work in the exterior treatment of houses which he may have under construction as to the proper proportions of mixture to use in order to give the most satisfactory results. Complaint is often made that some time after the stucco has been applied there appears in the exterior surface hair-line cracks which soon develop into ugly fissures that seriously mar the appearance of the work and tend to bring it more or less into disrepute. The builder is naturally anxious to avoid any such contingency and to do work that will prove pleasing to his clients and redound to his own advantage as a contractor. For the purpose therefore of assisting him in making proper use of stucco as the outside covering of buildings the Sandusky Portland Cement Co. has issued specifications for white Portland cement stucco, fine stipple-finish, upon brick, stone, hollow tile, metal lath or concrete, which cannot fail to prove of wide interest. The point is made that the base upon which the stucco is to be applied must be rough, thoroughly wetted and still moist when each coat of plaster is applied.

The scratch coat should consist of one part of an approved Portland cement and three parts clean sharp sand.

The ground coat should be not less than three-eighths of an inch thick and should consist of one part of Medusa water-proofed white Portland cement and two parts of Tuckahoe (or equal) fine crushed marble.

The finish coat should be one-quarter of an inch thick and of the same proportions as the ground coat. The mixture should be applied before the final set of the previous coat so as to insure a perfect bond. The stipple should be evenly done with a whisk broom when sufficiently set to obtain a uniform surface.

Where two-coat work is desired the ground or finish coat should be ½-inch thick. The work must be thoroughly wetted with clean water at least twice each day for a period of one week.

On giving the work a "rough-dash finish" the first two coats should be the same as for fine stipple above noted. For the finish coat the mixture should consist of one part of Medusa water-proofed white Portland cement and two parts Tuckahoe (or equal) crushed marble, passing through one-eighth and stopping on a 24-mesh sieve. The material should be mixed wet and dashed on evenly with a wood paddle or stiff brush.

The work should be kept wet as mentioned in connection with the fine stipple work.—Building Age.

### COST OF DRIVING PILES WITH A GASOLINE HOIST.

The cost of driving 1,300 piles with a 6½-h. p. gasoline engine operating a 1,650-pound drop hammer is reported in the Engineering Record to be 18.2c per lineal foot of pile in place, including the cost of the pile. The costs are itemized as follows: cost of piles delivered, \$1,432.80; labor, \$1,653.93; engine and hoisting outfit, \$340; scow, \$154.45. The piles were driven from a scow on which the engine was mounted, and were driven to an average depth of 13.15 feet. The cost of the piles alone was 7.5 cents per lineal foot.

### DEAD AIR SPACE TO KEEP OUT DAMPNESS.

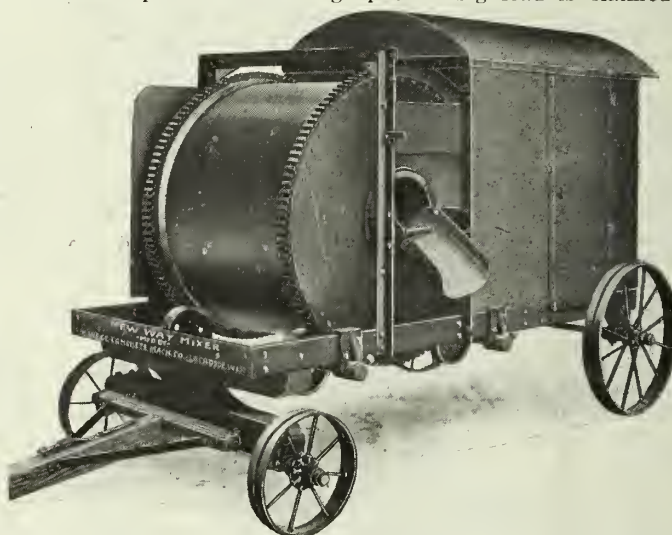
T. L. D.—I would like to inquire in regard to ventilation in cement buildings. I have constructed a building, 28x70 feet by 18 feet high of cement blocks, 6x12x24 inches, with an air space in them. The walls of building are now closed at the top and bottom, having a dead air space between. I have been told by a party that there should be outside openings in the wall to allow free circulation of air, and that it would prevent the building from becoming frosty and damp.

What would be the best—to leave it as it now stands, with the dead air spaces, or put openings at top and bottom in the outside face of the wall for air circulation. I want to prevent the building from frosting, as I have machinery installed which would be damaged by the dampness.

Answer.—I do not consider your building should be damp just as it is constructed, provided that the quality of the concrete mixture was good in the blocks. It is a great deal better to have a dead air space than a live air space in the wall and in all buildings where the walls are insulated, the theory is to have the space sealed to secure the best ventilation. That is, the air should not be in motion. Do not, therefore, put any openings in your walls in the effort to secure a circulation of air in them. If you do, the results will be contrary to what you are seeking to secure—a preventive from frost and dampness, and the smaller the air space the better.—Keiths' Magazine.

### THE NEW WAY MIXER.

Makers of the New Way Concrete Mixer give the following five points in deciding what mixer to buy: durability, reliability of power, mixing speed, cost of operation, price. The E. Wedge Concrete Machinery Co., La Crosse, make the claim that the New Way outclasses all other machines on these vital points. In mixing speed a big lead is claimed;



and as to operating cost, a new record has been established. The "New Way" is a low charging mixer, and with the large opening the material is immediately swallowed up by the drum, and there is not the slightest chance for clogging. The mixture is discharged rapidly, and with our carefully planned chute, the material is carried into the wheelbarrow and not spilled on the ground.

### PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file Feb. 25, Builders' Exchange, Minneapolis:—Detroit, church, Feb. 25; Miles City, postoffice, Feb. 27; Fairmont, Minn., poorhouse, electric wiring, Feb. 27; South Stillwater, addition to waterworks system, March 2; Fargo, N. D., school (plumbing and wiring), March 3; Ambrose, N. D., Citizens State Bank, March 4; Maple Lake, hotel, March 5; Lawton, Oklahoma, postoffice, March 6; Jamestown, N. D., addition to North Side school, March 8; Jamestown, N. D., addition to North Side Mechanic school, March 8; Independence, Wis., school, March 11; Maxbass, N. D., school, March 19; Des Moines, Iowa, postoffice, remodeling and repairing, March 23; Mankato, remodeling residence; Minot, store; apartment building, Minneapolis, Spruce place and W. 15th street; hospital, Minot, N. D.; St. Cloud, Minn., addition to Lincoln school, March 22; St. Cloud, Minn., addition to Lincoln (Mechanics) school, March 22.

Reimer & Herlin, architects, Marshalltown, Iowa, are preparing plans for school at Colorado, Iowa, \$34,000; garage at Marshalltown, Iowa, \$10,000; hotel, McCallsburg, Iowa, \$10,000; store and lodge building, Melbourne, Iowa, \$10,000.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

Another big drainage project is under way in Iowa—a joint district of Clay and Palo Alto counties. The preliminary report is being prepared by Jos Mulroony and H. H. Hoberg.

A meeting to form a Minneapolis section of the state organization of the American Peace Society will be held at St. Mark's parish house, Minneapolis, Mt. Curve and Hennepin, Tuesday evening, 8 p. m., March 2.

Wisconsin is having some urging to do to have its state building code adopted by municipalities. Racine finds it "pretty drastic."

The estimated cost of the ditch is \$233,919 making it one of the largest undertakings of the kind in the drainage history of this section of the state. The water shed covers 15,000 acres. The district will drain into Rush Lake, which the state has also finally decided to drain. This will make it necessary for the main ditch to be connected with the state ditch in order to afford satisfactory disposition of the surplus water. There will be five miles of open ditch and five miles of tiling. The size of tile will range from 6 to 38 inches. Mud Lake in Clay county will be drained by this ditch. The proposition was considered about a year ago but the engineer was very busy and was not able to give attention to the matter until a short time ago. Rush Lake is situated within a mile or two of the Clay county line. By far the greater part of the district lies in Clay. It is the intention of the supervisors of both counties to have the work completed during the present year.

President C. A. Dubel of the Master Builders Association of Iowa, who returned to Sioux City, recently after a trip out in the state, said he saw evidences wherever he went that building operations in Iowa this year would be more extensive than last. Sioux City contractors have a busy spring in prospect.

A. Wasielewski, a Minneapolis contractor, who has been at Tulsa, Okla., has moved his headquarters to 331 15th st., Lorain, O., for Ohio work. He will spend three weeks in Florida, Washington, D. C., and New York, on his way to Lorain and reach there March 10.

O. S. Hall of the Hall Concrete Culvert Co., Red Lodge, Mont., shipped an entire culvert to the cement show, Chicago, to show the company's patent, interlocking concrete design. He attended the show.

Master Plumbers of Minnesota, in session at the Builders' Exchange, St. Paul, this week, elected G. K. Belden, Minneapolis, president; C. H. Schirmer, Hibbing, first vice president; L. Nienaber, St. Paul, second vice president; D. R. Black, Duluth, treasurer; national vice president, John McQuillan, St. Paul; delegates, J. S. Hague, Minneapolis, P. Gallagher, Faribault; delegates to Wisconsin meeting: W. W. Hughes, Minneapolis, J. C. Stack. The plumbers indorsed the bill in the Minnesota legislature to confine payments on different jobs exclusively to the jobs on which they are made. The new president will appoint a secretary.

Secretary A. V. Williams of the St. Paul Builders' Exchange and the Minnesota Manufacturers' Association, has a big task to keep track of bills introduced in the busy Minnesota legislature affecting trade interests. Up to date there have been 125 bills affecting trade, builders and employees.

"Big doings" for the Jovians Friday evening, Feb. 26, 6:30, at St. Paul Commercial club; joint rejuvenation and joviation by St. Paul League, (Clovis M. Converse, tribune) and Minneapolis League (W. T. White, tribune). The program includes a "big show."

The A. P. Hill Co., 217 Oak st., SE., Minneapolis, have recently issued a catalog on their modern sand and gravel screening and washing plants, crushing machinery, belt and elevator conveyors and cost cutting handling devices; this book will be mailed free on request of any reader of the Bulletin.

The Master Plasterers of the Twin Cities is the name of a new organization that will bring together a number of old organizations of Minneapolis and St. Paul and will operate as an exchange. Olaf Dahlstrom, 4000 Aldrich av. S., who filed the incorporation papers with the secretary of state, said that the new organization will hold much the same relationship to the plasterers as the Builders' Exchange of Minneapolis holds to contractors.

It took a contractor of Menasha, Wis., Edward Heckner, 33,000 minutes to build a house, complete, modern, for a resident. The time in days was 55, of 10 hours.

### ARCHITECTS AND ENGINEERS.

Following were among the engineers attending the annual meeting of the Minnesota Surveyors' and Engineers' Society in St. Paul last week: A. J. Rasmussen, Caledonia, Minn.; M. J. Cleveland, St. Cloud; C. A. Cherry, Minneapolis; Jno. B. Foley, Minneapolis; A. J. Fenn, Little Falls; W. J. Rosenwald, St. Paul; S. Steenerson, Crookston; Nels Peterson, Little Falls; Wm. Barneck, Albert Lea; F. W. McKillip, Faribault; H. F. Bloomquist, Markato; Harvey S. Dartt, Owatonna; F. J. O'Hara, Aitken; H. W. Teague, Detroit; Cerne C. Canaday, Taylors Falls; L. Knudsen, Brainerd; J. E. Cole, Morris; B. James Reynolds, Redwood Falls; Walter I. Larson, Lake Benton; E. W. Kibbey, Little Falls; L. A. Osgood, International Falls; D. Rose, International Falls; Carl F. Meyer, Duluth; E. S. Abbott, Minneapolis; Roscoe L. Smith, St. Paul; Marten Aalberg, Henning; L. E. Garrison, Brainerd; Chas. E. Spencer, Park Rapids; I. C. Christub, Hutchinson; A. M. Muller, Brainerd; J. E. Dishington, Hallock; J. L. Chubb, Minneapolis; J. H. McVitty, Fargo; S. F. Muller, Green Isle; C. N. Robertson, New Ulm; D. R. Savage, Windom; Carl Case, New Ulm; Albert Anderson, Westbrook; A. S. Gove, Windom; C. W. Gove, Windom; Nathan Butler, Minneapolis; J. E. Fearing, South St. Paul; Wm. Danforth, St. Paul; J. H. Druar, St. Paul; O. H. Steck, Marshall; N. Y. Taylor, Litchfield; John H. Miller, St. Paul; John T. Stewart, St. Paul; Tresham D. Gregg, Minneapolis; L. P. Wolff, St. Paul; D. C. Washburn, Elk River; Geo. H. Herrold, St. Paul; Martin Kjolhang, Garvin; Geo. T. Hamer, Garvin; G. M. Corley, Princeton; W. H. Hoyt, Duluth; C. L. Methven, Hastings; G. S. Kibbey, Minneapolis; O. L. Hamery, Crookston; Frank A. Bronson, Gilbert; C. D. Conkey, Jr., Carleton. Wm. Danforth gave a talk on segmental vitrified blocks for sewer work in which he favored them, reported them a success and pointed out advantages. There was a lively discussion of private practice of state university engineering professors.

Geo. Blewett, a young architect of St. Paul, with offices in the Endicott building, is praised in the following paragraph from the Red Wing Republican: "The architect (Mr. Blewett) in charge of the improvements in the Medical block, drew the plans for the new morgue of A. Swanson's Sons, Main st. The building marks a departure in architecture and adds greatly to the appearance of Main st."

Wm. P. Cowles, engineer, Minneapolis, has won his case in the highest state court against the park board for \$1,383.57 for services in connection with bridges at Lake of the Isles. The board refused to pay Mr. Cowles part of the amount due, because one of the bridges cracked. The lower court held that this was due to deep dredging nearby and not to any negligence on the part of Mr. Cowles. This decision was affirmed.

A suggestion that all civil engineers and surveyors organizations in Minnesota merge with the state society was popular. Local societies would be local divisions of the state society. Dean F. C. Shenehon of the university of Minnesota, engineering college, Capt. G. W. Freeman and others spoke at the dinner; W. F. Brooks was toastmaster. The society in the final business session favored leaving the state road laws as they are. Officers were chosen: W. H. Hoyt, Duluth, president; F. W. McKillip, Faribault, vice president; G. H. Herrold, St. Paul, secretary and W. F. Rosenwald, St. Paul, treasurer. St. Paul was selected as the meeting place in 1916.

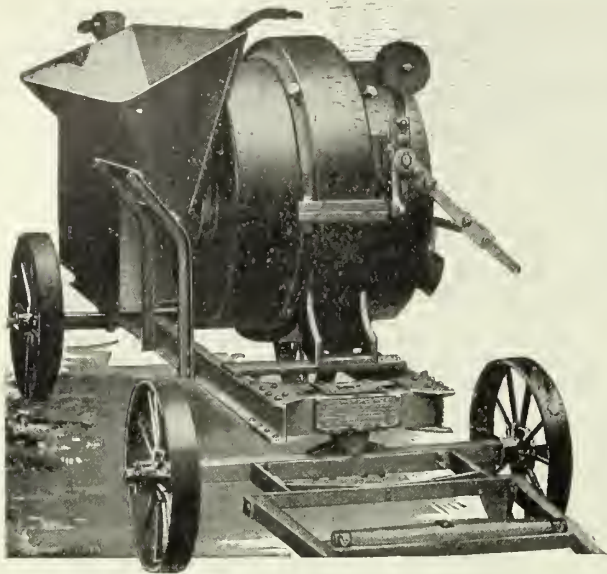
W. T. Bray, architect, Duluth, writes that there is no truth in the items printed that a new firm of Bray & Shand, (C. K. Shand of Virginia) had been formed; but that the firm of Bray & Nystrom had been dissolved.

F. W. Dencer, civil engineer of the American Bridge Co.'s works of Gary, Ind., delivered an address Feb. 25, before the students of the college of engineering, university of Minnesota, and the engineers of the Twin Cities on practical structural design.

In the last competition held by the Society of Beaux Arts Architects of New York, G. A. Anderson, a student of the department of architecture (extension class) of the college of engineering of the university of Minnesota, received the highest grade of award, "First Mention Placed." Eight other students out of a total of fifteen Minnesota men who submitted drawings received "Honorable Mention."

The Arthur W. Riesen Co., Milwaukee, was low in bids for Cincinnati court house, at \$1,963,000.





# Smith Mixerette

## Facts and Figures

The Bleicher Concrete Co., Kenosha, Wis., purchased the first Smith Mixerette that was built. Here's what they have to say about their machine and some of their records as given in their letter of October 26th, 1914.

"We bought one of your Smith Mixerettes six months ago, and find it to be a great labor saving machine. With 3 men we are able to put in 1,000 square feet of sidewalk in 9 hours with the aid of your mixer. Recently I put in a foundation 35 ft. x 42½ ft. x 1 ft. (55 cu. yds.) with your Mixerette in 9½ hours."

"It is a wonderful machine and I can recommend it to any one desiring to reduce their labor expenses, for I know how much can be accomplished with it."

This dandy little mixer holds a five-foot batch of dry, loose material, 3 cubic feet of mixed concrete. It will easily turn out 5 cubic yards per hour.

Compared with other five foot mixers, the price of the Smith Mixerette is as low or lower, and back of it is the guarantee of the biggest concrete mixer manufacturers in the country.

\$128.00 on skids with pulley and feed chute.

\$246.00 on steel truck with 2 H. P. gasoline engine, steel house and low charging, gated batch hopper.

\$315.00 on steel truck with 2 H. P. gasoline engine, steel house and ground level power charger.

Get all the data by filling in and mailing the Coupon for Mixerette Proposal and Booklet No. 106-B.

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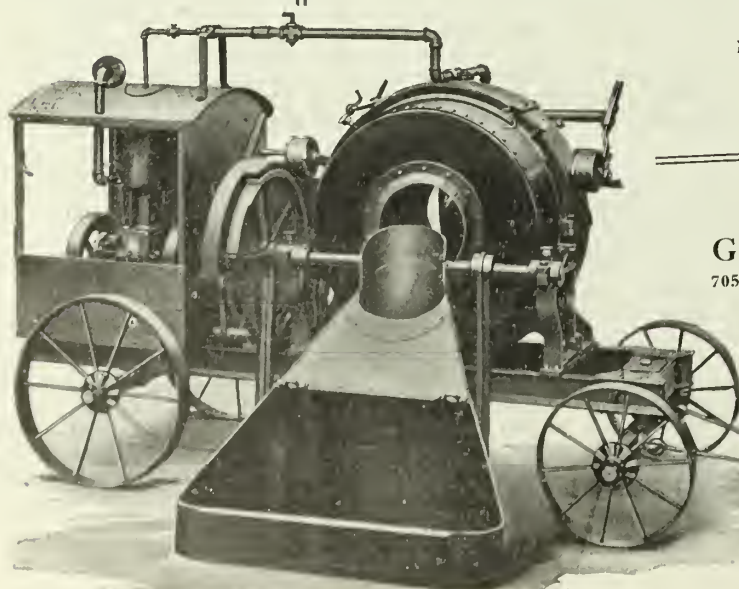
Send me, without any obligation on my part, SMITH MIXERETTE proposal and Booklet No. 106-B.

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# CONSTRUCTION & CONTRACT NEWS

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## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.

Phones: N. W. 3902. T.-S. Center 2194.

Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

Dr. Chas. E. Cotton, 24-26-30 W. Lake st., concrete foundation for store building; Anchor Stone Co., builder.....	2,400
August, John and Edward Carlstedt, 1101-05 S. 7th st., 3-story brick apartments (24); address owner, 311 23d av. N.	35,000
Edward A. Holt, 3515 N. Lyndale av., 1½-story frame dwl.; Erick Sjostrand, builder; address owner, 1719 Lyndale av. N.	2,800
Louis K. Anderson, 1513 26th av. NE., 1½-story frame dwl.; address owner, 1520 Adams av.	3,000
Harry F. Baker, 4629 E. Lake st. boul., frame addition to dwl., alterations; Victor Fridlund, builder; address owner, 4629 E. Lake Harriet boul.	1,800
Alfred Lillberg, 3949 Chicago av., 2-story plaster veneer dwl.; address owner, 721 E. 18th.	3,600
Thomas Halloran, 2711 N. Penn av., 1-story frame dwl.; address owner, 329 Broadway.	3,000
Mrs. Blanche M. Parker, owner and builder, 4709 S. Bryant av., 1½-story plaster veneer dwl.; address owner, flat 2, 1374 Spruce pl.	3,300
Miss Josephine Merriam, 1314 4th st. SE., alterations changing "College Inn" into rooming house; address owner	5,000
Andrew Peterson, 2449 26th av. S., 1½-story frame dwl.; Hansen & Faaborg, builders; address owner, 3016 20th av. S.	3,000
Peter Lundquist, 727 E. 18th st., 3-story brick flats (19); address owner	30,000
Farmers Savings Bank (Pittsfield, N. H.), 1414 8th av. N., alterations, change dwl. into duplex; address owner.....	1,000
J. H. Johnson, 4628 S. Vincent av., 1½-story plaster veneer and shingle dwl.; address owner, 828 Hennepin av.	1,650
Herman Catlow, 801-03 N. Logan av., 2-story plaster veneer flats (4); Mandel Bros., builders; address builder, 1027 Bryant av.	9,000
Samuel R. Wilson, 308 Lowry av. NE., 1-story frame dwl.; A. C. Galehutt, builder; address builder, 426 SE. 8th.	1,000
George A. Hormel & Co., 225 5th st., freight elevator, electric; Gust Lagerquist, builder; address builder, 225 N. 5th.	1,200
N. W. Knitting Co., 201-15 3d av. N., 267-75 N. Lyndale av., two passenger and one freight electric elevators; Gust Lagerquist, builder; address builder, 281 Lyndale av. N.	8,000
John D. Olson, 1213-15-17 Harmon place, 1-story brick stores (3); James Peterson, builder; 2304 Grand av.	5,000
N. W. Telephone Exchange Co., 218 S. 5th st., columns and floor for entrance to future 10-story building; Pike & Cook Co., builders; 5th NE. and cor. of 3d av. S.	15,000
Mrs. Fannie F. Bass, 3636 14th av. S., 1-story frame dwl.; P. B. Haedrich, builder; address builder, 3040 Clinton av.	2,000
Fred C. Bodeman, 3207 Bryant av. N., 1-story frame dwl.; address builder, 36 N. 12th.	2,500
Fred C. Bodeman, 3211 Bryant av. N., 1-story frame dwl.; address builder, 36 N. 12th.	2,500
B. F. Nelson Manufacturing Co., 400 Marshall st. NE., reinforced concrete stack; H. N. Leighton Co., builders; address builders, 1125 SE. 5th.	3,000
W. G. Iverson, 3616 38th av. S., 1½-story frame dwl.; address builder, 3739 Minnehaha av.	1,500

Minneapolis Builders Exchange bowling league resumed Thursday, after two weeks. The standing:

Glass won 35, lost 10, percentage, 777; Lumber, won 33, lost 12, percentage, 733; Hardware, won 32, lost 13, percentage, 711; Plumbers, won 26, lost 19, percentage, 577; Millwork, won 26, lost 19, percentage, 577; Boiler, won 24, lost 21, percentage, 533; Roofers, won 21, lost 24, percentage, 466; Lime and Cement, won 19, lost 26, percentage, 433; Bonds, won 15, lost 30, percentage, 333; General Contractors, won 14, lost 31, percentage 311; Brick, won 14, lost 31, percentage, 311; Building Specialties, won 11, lost 34, percentage, 244.

\*Haley & Johnson, architects, Plymouth building, have furnished plans for a duplex, Hamlin and Cecil, 2-story frame, stucco, and brick veneering, two hot water plants, built-in sideboards, book cases, fireplaces, sun porches, sleeping porches, billard room, third floor. Address owner, care architects.

Peter Sundquist, 1119 E. 31st st., has taken out permit for a flat building, 19 apartments, at 727 E. 18th st., 57x82, 3-story, brick veneer, modern, gas ranges, kitchens and kitchenettes, ice boxes, laundry, tile floors, tar and gravel roof; plans by John D. Koester, Iron Exchange, 4th av. S.; owner taking figures.

\*Glen L. Saxten, architect, Plymouth building, has furnished

plans for a bungalow, Rush City, Minn., for J. W. Smith, frame, modern, \$2,600; frame dwelling, A. R. Gemmell, Rush City, frame, modern, 24x28, \$4,000; bungalow, Ray, N. D., for W. A. Hart, Washington fir trimmings, \$3,800.

John B. Koester, architect, Iron Exchange, has furnished plans for alterations and additions to stores on north east corner Washington and Nicollet, for the Gateway Holding Co.; plate glass, tile, floors, patent store fronts, electrical work; architect taking figures.

Bids for the general contract, of the Excelsior high school are in and will be considered by the board of education, Excelsior until March 3, National Construction Co., Alexandria, low bid, David Comb & Sons, next low; other bids by Pike & Cook Co., Madsen Bros.

\*Plans for the \$100,000 improvements at Minnesota college, are being considered this week by the Minnesota conference of the Augustana Lutheran Synod, Dr. Frank S. Nelson, president college; meetings at church, 28th street and 15th avenue South.

\*Long, Lamoreaux & Long, architects, 830 Hennepin, have the bids in this week on the extension to Interlachen club house, two stories, screened porch, enclosed second story with double-hung windows, wiring, heating, foundation, wall and footings.

\*Bids will be taken about March 1, on the ice cream factory for the Lathrop Kemps Ice Cream Co., plans by Chas. A. Berger, refrigeration engineer and architect, 811 Sykes block, 80x85, 2-story, brick, Bedford stone, tar and gravel roof, skylight.

S. M. Klarquist & Son have completed the general contract on the Swedish hospital addition, and are now making extensive alterations and repairs in the old buildings; Chapman & Magney, architects, Essex building, 10th and Nicollet.

Plans for a fish hatchery and exhibition house, or state aquarium, have been submitted to park board by Superintendent Wirth; 45x100, \$30,000; offices, hatchery room, exhibition hall, 20 tanks; referred to committee.

C. E. Bell, architect, Security Bank building, 312, will take bids until 12 m., March 5, on structural steel, for Union City Mission building, 2d st. and Hennepin av.; 12-story, 50x88, terra cotta bids later.

Gust Lagerquist, 514-20 N. 3d, has been awarded contract for elevators in the N. W. Knitting Co. plant, passenger and Freight, at \$8,000; in the Geo. A. Hormel Co., packing plant, freight elevator, \$1,200.

\*Tyrie & Chapman, architects, Auditorium building, are taking figures on heating plant and electric work, Phelps building, 919 Nicollet; J. M. Brown Co., general contractors, Lumber Exchange.

Downs & Eads, architects, New York Life, have let contract for addition to Tuttle church, to John Benson, brick, heating, plumbing, wiring, new boiler, work to begin at once.

A 2-story store and apartment building will be built at 24-30 W. Lake st. by Charles E. Cotton, veterinarian, 617 4th av. S.; cost \$24,000; this is in new fire limits along Lake st.

Thomas Halloran, 329 Broadway, is building a 1-story, frame, modern dwelling, at 2711 10th av. N.; 26x36, hot water heat, tile bath, \$3,000; no architect, contract to W. C. Ellis.

Farmers' Savings Bank of Pittsfield, New Hampshire, A. W. Carlton, agent, 1817 Melbourne av., will remodel residence at 1414 8th av. N., to a duplex, hot water heat, modern.

\*Bids will be taken soon on Episcopal church, Eau Claire, Wis., Rev. P. H. Linley, 508 S. Farwell, Eau Claire; Purcell & Elmslie, architects, 422 Auditorium; brick and stone.

The Beck Electrical Construction Co. have just closed a contract for the complete electric equipment of the store and office building at 1115 Hennepin av., for E. C. Gale.

\*Frank Finsterbach will build a 1-story addition to business building at 2521 27th avenue South, for bakery, 21x32, 1-story frame, concrete and wood floors.

Bids are in on the plant of the Minnesota Fibre Bottle Co., C. A. Boehme, architect, Kasota block; owner, care of Sand Lime Brick Co., Kasota block.

The S. Swenson Artesian Well Co., of this city, have contract to drill a deep well on the I. K. Dahle Stock Farm, a few miles north of the city.

Mrs. Josephine Merriam, owner of the College Inn, 1314 4th st. SE., will remodel it to a rooming house, no architect, day labor, \$5,000.



# PROPOSAL ADVERTISING FOR BIDS

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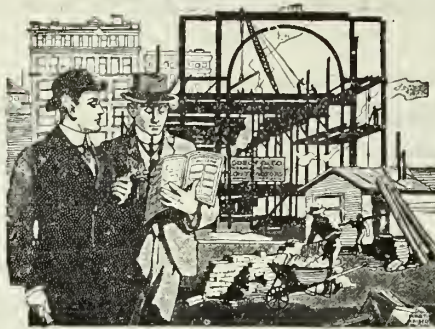
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**OFFICIAL ADVERTISEMENTS** for pro-  
posals will be published in this department  
on receipt of copy with order from author-  
ized official, building committee, architect or  
engineer.

**RATE:** 15c per line each insertion. No  
discounts allowed. Several insertions are  
customary to insure full and fair competi-  
tion.

**PUBLICATION DAY:** Last forms close  
10 a. m. Friday. Copy received up till that  
hour will be published in The Bulletin and  
delivered to subscribers the next day. Copy  
received later cannot be published till issue  
of the following week:

**MINIMUM CHARGE:** No advertisement  
published for less than \$2.00 each insertion.

**NIGHT LETTER OR PHONE:** When too  
late to send copy by mail to reach us by 10  
a. m. Friday, forward by night letter or  
long distance telephone.

The Daily Reports of The Improvement  
Bulletin, published every business day, can  
be used to advantage when copy cannot  
reach us in time for publication in the week-  
ly Bulletin before bids are to be opened or  
when daily publications are necessary to  
meet legal requirements. Rate is the same,  
—15c per line each insertion.

## Proposal Index

Bids Close	See Imp. Bulletin Dated
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Mar. 10. Sewer, Mason City, Ia. ....	Feb. 20
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March 1. Extension street lighting system, Grand Forks ....	Jan. 30

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## ST. PAUL, MINN.

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## Building Permits.

Citizens Ice & Fuel Co., alterations and repairs to 1-story brick building, Selby near Kent; W. J. Hoy Co., builders	14,000
H. Heineman, 1110 Edmund, 2-story frame dwl., Edmund near Lexington; R. W. Baumann, builder	3,000
M. J. Gibbons, 1193 Cobo blvd., 2-story brick and tile flats, Dayton near Chatsworth; Thos. Brady, builder	7,000
Jos. McCarthy, 679 Lincoln, builder, 2-story frame dwl., 950 Fairmont	3,000
Laura R. Stultz, 1½-story frame dwl., Hudson near Forest; Home Building Co., builder	2,400
A. Pram, 335 Arbor, 1½-story frame addition, 335 Arbor; Home Building Co., builder	1,250
Karl Strom, 1801 St. Anthony, 1½-story frame dwl., St. Anthony near Fairview; Home Building Co., builder	2,400
Silberman & Suporneck, 159 E. Isabel, builder, alterations and repairs to 2-story frame building, State near Winifred	1,500
German Evangelical St. Paul's Church, 1-story brick and stone church, St. Peter near Tilton; P. O. Nasvik, builder	32,000
Frank Aubin, 1742 Dayton, builder, 1-story frame dwl., Dayton near Snelling	2,000
Fred Fulmore, 1733 Kerwin, builder, 1½-story frame dwl., Kerwin near Flandreau	1,500
Wilemenna Pangerl, Belle Plain, Minn., 1½-story frame dwl., Haggard near Cook; E. W. Woodrich, builder	3,000
W. S. Regan, 2-story frame and stucco dwl., Fairmont near Chatsworth; E. Schmidt Mfg. Co., builders	4,000
Mrs. Anna Kranralt, 487 Bay, 1½-story frame dwl., Juno near Victoria; G. D. Hoffman, builder	1,800
Peter O. Nordstrom, 686 Glendale, builder, 1½-story frame dwl., Eustis near Bayard	1,500
Otto Stenberg, 1347 Thomas, builder, 1½-story frame dwl., Thomas near Griggs	2,500
E. L. Bordo, 1½-story frame dwl., Thomas near Asbury; Carl C. Granstrum, builder	2,200
Haynes Bread Co., 1-story frame shed, University near Kent; O. H. Marshall, builder	1,000

A. E. Swager, 1012 Germania Life building, architect, has furnished plans for a modern residence at Northfield, Minn., for Dr. J. G. Phillips; owner builds; separate contracts; concrete and cement, H. A. Skellerud; brick and tile, E. Wert; carpenter, J. O. Johnson, all of Northfield; hot water heat, two fire places, billiard room, casement windows, French doors, sun-porch, garage, cistern filter, breakfast porch, reinforced concrete floors, built-in cupboards, tile baths, walled-in bath tub, galvanized iron fire boxes, built-in bookcases, tile roof, ornamental brick backed by hard burned tile.

Bids are being taken till 2 p. m., March 11, on high school (seating 150 and gymnasium), 2-story and basement, \$35,000, Independence, Wis.; plans by O. H. Round, architect, 202 Oppenheim building, for joint school No. 6 of Independence and Burnside; Dr. C. F. Peterson, clerk, Independence; plans from architect; brick and stone trim, tar and gravel roof; stone cornice, structural iron; official advertisement in The Improvement Bulletin this week.

W. F. Keefe, architect, American National Bank building, states the church at Easton, Minn., will be built by owner, letting various contracts without a general; bids were received but on account of certain circumstances the low, \$34,867, was not retained; next low was Otto Neitge, Mankato, \$35,200; G. Schwartz, Rochester, \$37,157; Johnson Construction Co., Minneapolis, \$38,390; John Moline, St. Paul, \$39,537.

A. F. Gauger, architect, Scandinavian American Bank building, is drawing plans for a modern residence in Sleepy Eye, Minn., for E. W. LaGow, brick, first story, stucco, stone, shingle roof, hot water heat, laundry, gymnasium, cement floors, coal chute, brick fireplace, built-in seats, tile baths, Morgan doors, sun-parlor, sleeping porch, columned arches; plans ready next week; owner lets work.

Alden & Harris, architects, Commerce building, have completed plans and are taking figures this week on a commission building, for Tubbesing & Nelson, Jackson st., 2-story, 40x100, brick, stone foundation, refrigeration, banana room, insulation, all-door front, elevator, composition roof, wiring, plumbing, wood and concrete floors.

Peter J. Linhoff, architect, Germania Life building, has furnished plans for a modern residence, Grand near Dale, for D. & M. S. Lightner, stucco, 2½-story, hot water heat modern, 30x58, trays, three tile baths, brick fireplace, sleeping porches, shingle roof, linoleum in kitchen, gas, electric; plans out; architect will take figures.

Geo. A. Blewett, architect, Endicott building, has furnished plans for business building in Red Wing, Minn., for Chas. E. Lillyblad, adjoins Medical block, 1-story, tar and gravel roof, store front, Kawnear bars, hardwood floor, wiring, plumbing, lavatories, vault, hard plaster; plans out next week; owner lets work.

Alban & Lockhart, architects, Endicott building, have start-

ed plans for the high and grade school at Kenyon, Minn., brick, 2-story and basement, steam heat, modern equipment, assembly room, gymnasium, domestic science, etc.; plans out about April 1; \$60,000; J. A. Holmen, secretary, Kenyon.

A. E. Swager, architect, 1012 Germania Life building, has furnished plans for a modern residence at Faribault, for J. M. Murray, brick, brick, rough boards, drip caps, con. foun., hot water heat, French windows, bath, laundry trays, brick fireplace, French doors; owner will build.

Alban & Lockhart, architect, Endicott building, have prepared plans for a modern residence at Barron, Wis., for C. C. Coe; frame, brick porch, concrete foundation, asphalt shingle roof, fireplace, bath, French doors, laundry casement windows; plans out April 1; owner will let work.

\*New company is incorporating at South St. Paul, for a packing plant, co-operative plan, capital, \$1,000,000; Ira M. J. Chryst, Hudson, Wis., president American Society of Equity, and Frank N. Moore, vice president People's Bank, St. Paul, among incorporators.

A. H. Stem has furnished a new suggestion for a mall along 3d st., leading to the new Union station, which would use the high river bank for underground warehouses which would cost about \$4,500,000 for 3,000,000 square feet of rental area.

P. O. Nasvik, general contractor, will proceed with the construction of St. Paul German Evangelical Lutheran church, St. Peter and Tilton; 66x102, brick, stone, modern; \$32,000; Alban & Lockhart, architects, Endicott building.

H. E. Erickson, architect, American National Bank building, has furnished plans for a flat at 9th and Summit, brick, modern, for R. T. Rockey, hot water heat, laundry, composition, stone foundation, contract to be let soon.

A \$25,000 club house, with gymnasium and bowling alleys is under consideration by the Men's club of the church of the Messiah, Fuller av. and Kent; P. B. Lacy, clerk, N. P. R. R. on committee.

Figures are in on the addition to the Emporium department store, 7th and Robert, Buechner & Orth, architects, Shubert building; figures in March 12, on St. Joseph's hospital, Mason City.

Wheelock Parkway bridge will be built by the Soo road and the road will aid in building the bridge over the Wisconsin Central; preparations to start at once; Soo general offices, Minneapolis.

President Oscar L. Taylor of the St. Paul Athletic club expects work to begin on the new club house of 4th and Cedar; A. H. Stem, architect, Endicott building.

Silas Jacobson, architect, Capital Bank building, is taking figures until March 5, for Maple Lake, Minn. hotel, for Frank Happs, brick, hot water heat, modern.

Geo. A. Blewett, architect, Endicott building, will start plans at once for the Commercial club, Red Wing, Minn., following sketches accepted.

State board of control will investigate and report to governor on plan to sell the old capitol, and replace with a modern office building.

Work on the new addition to the town and country club will start soon and club expects to complete construction May 15.

Council has the plans from City Architect Hausler for the city garage and repair shop; cost \$21,000.

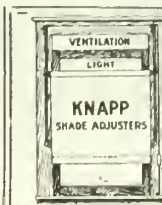
Bids received until March 8, by city, for pipe fittings and fixtures for comfort station City Hall park.

St. Paul A. O. H. lodges will consider plans Sunday, Feb. 28, for proposed \$50,000 lodge building.

Superintendent Gerlach of school buildings, favors a new Lafayette school, West Side.

## FARGO, N. D.

Bids received till noon, March 3, by board of education for furnishing material and labor for heating, plumbing, ventilating, electric wiring, for concrete and brick school; Sam F. Crabbe, architect, Fargo; E. G. Guthrie, secretary, board of education.



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is the sum of \$30,000. Plans and specifications may be seen at the office of the County Auditor of Steele County and at the office of George A. Ralph, Engineer in charge, 410 Shubert Building, St. Paul, Minnesota. Bids will be received for said work and material as one job, also on any one or more sections or parts thereof.

Bids must be made on blank forms which will be furnished by the Engineer. Each bid must be accompanied by a certified check for ten per cent of the amount bid, made payable to the County Auditor of Steele County, as a guarantee of the good faith of the bidder.

The right is reserved to reject any or all bids.

Dated at Owatonna, Minnesota, February 17th, 1915.

GEORGE A. RALPH,  
Engineer in Charge.  
M. J. PARCHER,  
County Auditor.

#### SCHOOL.

Millersburg, Iowa.

Sealed proposals will be received March 10th, 1915, at 11 A. M., by the Independent School District of Millersburg, Iowa, for the erection of a 9-room school house.

All bids must be in strict accordance with plans and specifications prepared by Reimer & Berlin, Architects, Marshalltown, Iowa, which may be seen on and after Feb. 20th, 1915, at the office of the architects or at the Orville Hatter store at Millersburg. Plans may be obtained from the architects by a deposit of \$5.00 which will be returned when plans are returned to the architect in good condition. A certified check of \$300.00 must accompany each general bid, on heating \$100.00, plumbing \$100.00, lighting \$25.00.

The right is reserved to reject any or all bids.

G. E. JACK,

Secretary of the Independent School District, Millersburg, Ia.

#### NOTICE TO DRAINAGE CONTRACTORS.

Sale of Ditch Job, Blue Earth, Minn.

On the 19th day of March, 1915, at 11 o'clock A. M. at the office of the County Auditor in the City of Blue Earth, Minnesota, the undersigned will sell the job

of constructing County Ditch Number 27 of Faribault County, Minnesota.

The approximate amount of work, and material to be furnished in the construction of said ditch is as follows, to-wit:

No. of feet	Size of tile.	Ave. depth.
700	20"	6.72
4900	18"	8.37
3700	16"	10.95
1200	12"	6.25
1965	10"	6.23
4400	8"	7.58
800	7"	4.79
400	6"	6.48

Tile or closed work, requiring digging and constructing trenches and refilling same, one reinforced concrete bulkhead, as per Engineer's specifications. Engineer specifies Number 1 hard burned clay tile, soil, black loam or clay subsoil. Average haul about 5 miles from Blue Earth on the Chicago and North Western Railroad and the Chicago North Western and Omaha Railroad, also an average haul of about 5 miles from Marna on the Chicago and North Western Railroad.

All bids must be accompanied by a certified check for not less than ten per cent of each bid, payable to the order of Jesse L. Herring, County Auditor. The successful bidder will be required to give a bond as provided by law. The right to reject any or all bids is hereby reserved.

CARL L. HAGGER,

Engineer, Blue Earth, Minn.

JESSE L. HERRING,  
County Auditor,  
Blue Earth, Minn.

Dated February 19th, 1915.

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#### NOTICE TO DITCH CONTRACTORS.

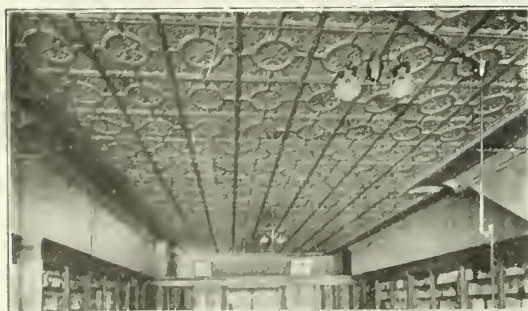
Owatonna, Minn.

Sealed proposals will be received by the County Auditor of Steele County, Minnesota, at his office in the Court House, in the City of Owatonna, until two o'clock, P. M., Saturday, March 13, 1915, for the construction of Judicial Ditch No. 2, in said Steele County, Minnesota.

The work to be let consists of the excavation of a main ditch, three lateral and three branch ditches, containing in all 240,447 cubic yards of excavation.

Also the furnishing and installing of 30 corrugated metal culverts and constructing one highway bridge. The estimated cost of all said work and material and the estimated cost of said ditch

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**DULUTH, MINN.**

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\*H. I. Gooch is putting up a 2-story frame residence on Woodland av. near Faribault st.; Berquist Bros., general contractors.

\*Shurick & Solheim, architects, Torrey building, advise they have received instruction from the Meriman Investment Co., Philadelphia, to have plans ready for figuring by March 15th, for their bachelor apartment house; this will be a 5-story and basement building; 250 rooms.

\*Holstead & Sullivan, architects, Palladio building, are taking bids on a brick building for the Minnesota Tea Co.

\*Matt Eklund will build a frame dwelling at 49th av. W. and Magellan st., \$2,000.

\*F. A. Johnson will erect a bakery at 24th av. W. and Superior st., \$9,100.

\*Mrs. M. Goldberg is building a frame dwelling at 59th av. W. and Cody st., \$1,500.

\*S. Morterud will build a frame addition to store at Pacific av. and 3d st., \$3,000.

**SUPERIOR, WIS.**

Plans ready for bids about March 1, on St. Joseph's orphan asylum; 3-story and basement, 150x170, \$80,000; associate architects Emil Uhrlich, 706-1900 Euclid building, Cleveland, O., and John Bach, Newton building, Superior; Rt. Rev. J. M. Koudelka, Superior, in charge; face and common brick, sandstone trim, reinforced concrete, structural steel, composition roof.

**MILWAUKEE, WIS.**Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Val. A. Siebert, architect, 557 12th st., is taking bids on a brick veneer and stucco bungalow for H. Bauch at 26th st. and Auer av., until March 2; the same architect closes bids March 16, on remodeling a 2-family into a 4-family flat at Juneau and Jefferson st.; also preparing plans for a store, office and apartment building costing \$20,000 to be erected on the northwest side; owner's name withheld; brick and hollow tile, 2-story, 58x120, 5 stores, 7 flats and 4 offices; bids about March 20.

Plans for the new \$175,000 bascule bridge over Milwaukee river at State and Martin sts. will be issued by the department of public works within a few weeks' time; J. C. Pinney, superintendent of bridges, is also preparing plans for a \$5,000 footbridge over the C. & N. W. tracks at Rusk av., and for a \$6,000 foot bridge over the C., M. & St. P. tracks at Gordon park; no definite time for taking bids has been set; Fred G. Simmons, commissioner of public works.

Gustav A. Dick, architect, 811 State st., awarded following contracts on \$12,000 residence and garage for J. L. Sinyard, care of A. O. Smith Co., on Sherman blvd., near Meinecke av., mason, Aug. Grosjean; carpenter, Herman Wegner; concrete and cement, Stimple Co.; tile and marble, Milwaukee Tile & Mosaic Co.; plumbing, L. R. Stollberg; sheet metal, John Graf; electrical, Badger Electrical Co.; wall safes, Hibbard & Richardson Co.

J. R. Blodgett was awarded the heating and ventilating contract on a \$15,000 residence and garage for John D. Babcock, 128 2d st., on Prospect pl., Lake Bluff, East Milwaukee.

H. G. Meigs Co., West Allis, Wis., was awarded the contract for the following concrete road work for the Milwaukee county highway commissioner: Beloit road, 4½ miles; Mukwanago road, ½ mile. The requirements are for 17,200 barrels Portland cement.

M. C. Vierheilig, architect, 764 32d av., has the following work in hand: brick veneer duplex, 26x52, owner's name withheld, to be erected at 59th and Wells sts., at a cost of \$6,000; frame bungalow, 24x36, owner's name withheld, in West Milwaukee, at a cost of \$3,200; two brick veneer duplex houses, 26x52 and 24x48, on Galena st., at a cost of \$6,500 each.

Gustav A. Dick, architect, 811 State st., awarded following contracts on \$10,000 residence for E. Haas on 48th st., near Washington blvd.; mason, Henry Hecht; carpenter, C. A. Bauer; sheet metal, August Graunke; plumbing, O. E. Schmitt; heating, Winninger Co.; electrical, Piepkorn-Henning Electric Co.

Herbst & Hufschmidt, architects, 721 Caswell block, are preparing plans for a residence for W. H. Haynes at Grant

blvd. and Meinecke av., brick veneer, 2-story, 40x70; also for a French style residence, 38x40, to be erected on Downer av.; owner's name withheld.

Fitzhugh Scott, architect, 424 Jefferson st., awarded following contracts on remodeling of Max W. Babb residence at 624 Summit av.: carpenter, Alex Cogan; sheet metal, P. J. Lavies; plumbing and heating, Dearsley Bros.; electrical, Herman Andrae Co.

Fitzhugh Scott, architect, 424 Jefferson st., is preparing plans for a hospital building for Milwaukee Infants' Home and Hospital, Prospect av., and Bradford pl.; brick and concrete, 3-story and basement, 38x70; to be erected sometime this year.

A. L. Gebhardt has engaged Clare C. Hosmer, architect, 909 First National, to plan a \$20,000 residence and garage on the upper east side; brick veneer, 40x45, 2-story and basement, tile fireplace and roofing; garage, 30x30; bids about March 20.

Kamschulte & Webster, architects, 416 M. & M. Bank, awarded the general contract for the erection of a \$10,000 business block for I. Miller at 7th av. and Mitchell st., to Schiffer & Reeder, West Allis.

Alfred C. Clas, architect, awarded the general contract for erecting a brick and frame office building for the Klettsch Realty Co., on 4th st., near Cedar st., to F. Luenzmann Construction Co., cost \$9,000.

George Zagel, architect, 629 Walnut st., is ready for bids on a store and 3 apartment for Max Goodsit on 10th st., near Lloyd st.; brick veneer, 22x60, 2-story and basement; cost about \$8,000.

Clare C. Hosmer, architect, First National Bank building, closes bids March 2, for the erection of a \$7,500 residence and garage for J. J. Stamm on 7th av., Wauwatosa; previously noted.

**SIOUX CITY, IOWA**

\*Permits for the week are: P. W. Geary, house, 4328 Polk av., \$1,000; Matt Papavas, house, 2423 Correctionville road, \$1,200; Caroline Black, addition to store, 625 Court st., \$1,000; Sara E. Holman, house, 2211 Steuben st., \$2,000; W. R. Perkins, house addition, 3316 Jackson st., \$500; Mrs. J. C. Stevens, house, 810 22d st., \$2,000; F. C. Cleveland, house, 1725 W. 1st st., \$1,200; Hanford Produce Co., loading platform, 100 Court st., \$3,500.

\*Elections to determine whether consolidated schools will be built are to be held the first week in March at Smithfield, Anton, Cushing and West Fork.

\*Contract of a \$35,000 school for the consolidated district at Lawton, has been let to Dubel & Anderson, of Sioux City, contractors. Thos. Reinhart, of Sioux City, has the plumbing contract.

\*The committee of the First Methodist church has not decided upon an architect for the plans for their \$50,000 edifice on Nebraska st. Plans were submitted last week by various architects but decision has been reserved until the first of March.

F. E. Colby, architect, has furnished preliminary plans for the technical high school; 2-story and basement, 140x96, \$75,000, Missouri Valley, Iowa, John C. McGauren, secretary, board of education, Missouri Valley; bonds voted about March 1; reinforced concrete, brick veneer, stone trim, composition roof, structural and ornamental iron, skylight. Mr. Colby is also making plans for a residence, 2-story and basement, 29x43, \$6,000; owner's name withheld; frame, clapboards, siding, shingle roof; also plans for bungalow, 2-story and basement, 28x40; owner's name withheld; brick, veneer siding, shingle roof.

Beuttler & Arnold have plans under way for the Elks' club house, 3-story and basement, \$75,000, 8th and Douglas sts. A. F. Nash, chairman; brick, stone trim, composition roof, stone cornice, structural and ornamental iron; also plans completed and bids taken on dwelling, 2-story and basement, 36x48, \$10,000, 2707 Nebraska st., for Len C. Lessenick, care Chicago house; frame, siding, shingle roof, brick and stone foundation; also bids on bungalow, 1½-story and basement, 27x30, \$3,500; 3207 Jones st., for Miss M. E. Finley; frame, siding, shingle roof, brick and concrete foundation.

Store and office building will be rebuilt after fire, 4-story, \$100,000; 6th and Pierce sts. Beuttler & Arnold, Security National Bank building, architects, for W. S. Gilman 611 Pierce st.; working on preliminary sketches; brick.

Work will start in spring on First National Bank, 1-story, 25x62, \$8,000, at Coleman, S. D., Lytle Construction Co., Lytle block, Sioux City, architects and contractors; plans in progress: terra cotta front and brick, gravel roof.

General contract let on residence, 2-story and basement, \$3,000, Emerson Heights, for J. R. Elder, 115 13th st., to Thos.



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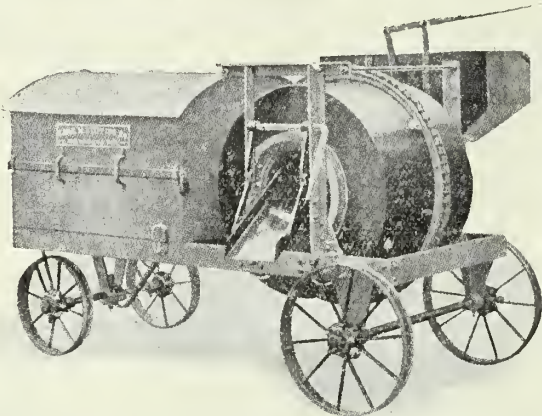
MINNEAPOLIS

## PROPOSALS

ENGINE, GENERATOR, ETC.  
Marshall, Minn.

Bids will be received by the city of Marshall, Minn., at the office of A. A. Regnier, City Clerk, until 8 P. M., March 1, 1915, for a direct connected steam engine and 100 k. w. alternating current generator, two switchboard panels and other accessories. Bids to be accompanied by certified check in the amount of 10 per cent. Specifications are on file at the office of the city clerk, Marshall, Minn., Minneapolis Builders' Exchange, and W. C. Buck, Consulting Engineer, Minneapolis. Bids shall be sealed and marked. The right is reserved to reject any or all bids.

(Continued on page 18.)



## "STEHLING"—The Quality Mixer

Used successfully on large and small jobs

Its quality and quantity of mix puts it to the front of all mixers on both large and small jobs. The drum of the Stehling Mixer has a capacity of 5½ cubic feet dry material; daily output 60 cubic yards. Its 5½ cubic foot hopper is loaded while the drum mixes the previous batch, thereby assuring a continuous feed and discharge. No time is lost. Mixers carried in stock for prompt shipments.

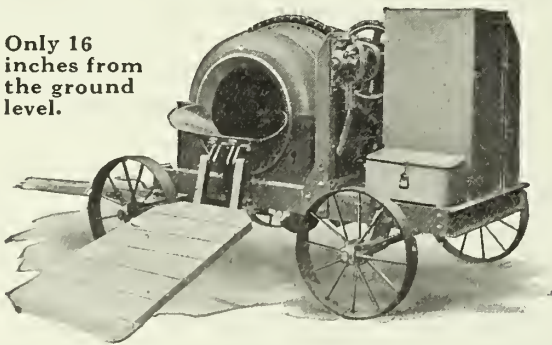
Write for further information and prices

Chas. H. Stehling Co., 401 4th Street Milwaukee, Wis.

Agents Wanted -- Good live Workers in unoccupied territory. Proposition sent on request.

## The "Wisconsin"

Only 16  
inches from  
the ground  
level.



## Low Charging Mixer

Has highest efficiency. Is lowest in price. Most compact and handy. Made for long service. Built on honor to the last bolt. Write for booklet, showing our complete line of mixers,

**Milwaukee Concrete Mixer Co.**

MILWAUKEE, WIS.

**FRANK J. ROSE, Agent**

208 Corn Exchange Bldg., Minneapolis, Minn.

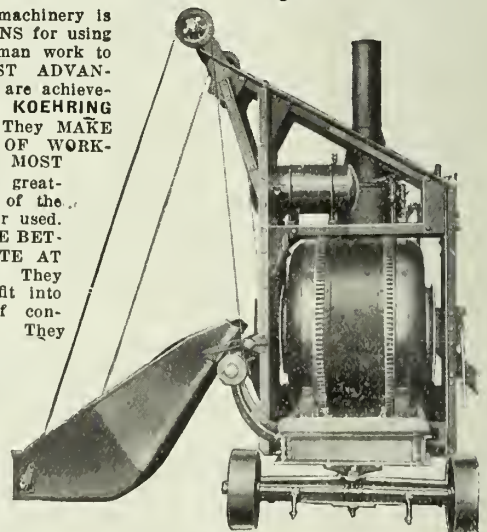
## Measure Value by Result

Any kind of machinery is simply a MEANS for using power and human work to the GREATEST ADVANTAGE. These are achievements of the KOEHRING MIXERS. They MAKE THE WORK OF WORKMEN COUNT MOST —they get the greatest value out of the time and power used. They PRODUCE BETTER CONCRETE AT LESS COST. They put more profit into every yard of concrete mixed. They take the guess-work away from contracts. They make each dollar invested in them COST LESS TO MAINTAIN, and therefore make each dollar EARN THE HIGHEST RATE OF INTEREST.

To do a thing well is desirable; to do it better is more desirable —and to do it BEST is MOST DESIRABLE.

MIXING THE BEST, and STANDING UP UNDER THE WORK are two specialties of the Koehring.

And just because it is the Mixer that has KEPT PACE WITH THE GREATEST MECHANICAL PROGRESS, the Koehring is the kind that is sought and bought. It does its talking when it is in USE—and what is a safer standard for judging anything than USE?



## Koehring Machine Co.

Milwaukee,

Wisconsin

H. B. JONES, District Manager  
350 Security Bank Building :: :: Minneapolis, Minn.



Hall, 168 Ingleside av.; heating and plumbing let to Andrew Johnson, 902 S. Paxton st., at \$700; roofed.

Plans are being completed for the Floyd school, (four room addition) 2-story, by Beuttler & Arnold; board will in the near future order additions to other buildings and also one or two new buildings.

General contracts on St. Patrick's church, at Churdan, let to C. F. Meyer, Humboldt, Iowa, at \$13,225.

## OMAHA, NEB.

Bids are in on the creamery, 9th and Harney, for Farmers' Co-operative Creamery & Supply Co., 9th and Harney sts.; E. W. Clarke, architect, Brandeis building; approximate cost \$60,000; 4-story, 66x130, press brick, steam heat, tar and gravel roofing, cement floors, oak and yellow pine interior finish, plate glass, Bedford cut stone trim, steel frame, two elevators, electric power, electric wiring, plumbing, plastering, painting, structural iron, sheet metal lath, metal ceilings, skylights, ventilating, refrigerating, hollow tile; list of bidders: J. C. Mardis, Range building; Jno. Harte, 1609 Webster st.; Selden Breck Construction Co., State Bank building; Jas. Stewart, 16th and Farnam; McGowan & Jacobberger, 600 Barker block, all of Omaha; Gillson Construction Co., St. Louis, Mo.

E. S. Dodd, architect, has furnished plans for residence, 38th and Mason, Omaha, Neb.: Martin Bush, owner, 35th and Leavenworth; contract awarded Chas. Moore, care of architect; cost \$5,000, 2-story, 30x36; press and common brick, vacuum vapor heating, shingle roofing, oak and yellow pine floors, interior finish, electric wiring, plumbing, plastering, painting, etc.

Plans are being prepared for a residence, Nehawka, Neb., for J. W. Palmer, Nehawka, Neb.; Jos. P. Guth, architect Paxton block; contract to be awarded soon; cost \$5,000; 2-story, 39x49, cement block foundation, vapor heat, shingle roof, oak and yellow pine floor, interior finish, electric wiring, plumbing, plastering, painting, etc.

Residence, 3319 Walnut, Omaha, Neb., Norris & Norris, owners, Bee building; Jas. Allen, Brandeis Theater building; cost \$4,750; 2-story, 24x36, cement block foundation, furnace heat, shingle roof, oak and yellow pine floor, electric wiring, plumbing, plastering, painting, tile, etc.; owner builds.

University club kitchen burned and the fire damaged the Board of Trade building, \$100,000.

N. F. Balz will build a frame modern dwelling at 2444 Laurel av., \$3,200.

Too busy to read? Have The Bulletin sent to your home address and look it over there.

Your salesmen can use The Bulletin—give each one a subscription and increase your sales.

## LINCOLN, NEB.

Work will start soon on residence, 1½-story and basement, 24x34, \$2,000, 1140 N. 7th st., for Lincoln Investment Co., 5th floor Little building; will soon start work; frame, brick and concrete foundation, shingle roof; also on four residences, 2-story and basement, 26x32, \$1,950 each, 27th and South sts., private plans, for same; frame, brick and concrete foundation, shingle roof, mosaic.

New figures on Carnegie library, 1-story and basement, 45x40, \$7,500, Collegeview, Neb., are being taken; plans by J. G. Cordner, 529 Bankers' Life building, Lincoln; W. E. A. Ahul, chairman, library board, Collegeview; press and common brick and stone trim, tar and gravel roof, galvanized iron cornice, structural and ornamental iron, mosaic.

Work will begin soon on store building (remodeling and repairing) 3-story and basement, 75x142, \$10,000, O st., between 11th and 12th sts., by A. M. Davis, 1701 K st., and G. A. Apperson, 1615 F st.; press and common brick, tar and gravel roofing, 6 skylights, structural and architectural iron, mosaics.

Plans for a store and hotel building, 2-story and basement, 37x75, \$10,000, 7th and P sts., are being made by J. G. Cordner, 529 Bankers' Life building for John R. Bennette, 1520 L st.; press and common brick and cut stone trim, two skylights, stone cornice, structural iron, mosaic.

A residence, 1½-story and basement, 30x47, \$4,000, 29th and M sts., is being planned by Jesse B. Miller, 426 Little building for Geo. Towne, University Publishing Co., building; architect drawing sketches; frame or stucco, shingle roof, mantel, mosaic, brick and concrete foundation.

A residence, 2-story and basement, \$15,000, 11th and E st., will be built by Moritz Alder, 3024 S. 14th st.; architect not

selected; press and common brick, stone trim, shingle roof, mantel, mosaic.

A residence will be built by Woods Brothers Investment Co., 7th and P sts., who will build about 30 houses this coming year, \$3,000 to \$6,000; frame, stucco, brick and stone.

A residence, private plans, will be built by Miller Winship Co., 140 N. 11th st.; will build about 20 houses this coming year; frame, stucco, brick, veneer, shingle roof.

## PUBLIC BUILDINGS

Iowa, Atlantic—Bonded debt of the city is such that new bonds cannot be sold for proposed city hall.

Iowa, Atlantic—Plans probably submitted to voters March 29, for contemplated city hall building, \$20,000; address city clerk.

Iowa, Greenfield—Petition to council for steps to be taken for construction of Carnegie library building; address city clerk.

Neb., Benson—Fire department in favor of a bond issue for city hall and fire house; address city clerk.

Neb., Harvard—Plans for public library being made by C. W. Way Co., Hastings, Neb.; 39x44, terra cotta finish in front; ionic pillars for entrance; H. G. Wellensick, treasurer, library board.

Neb., Hemingford—Reported steps will soon be taken toward building combined city hall and fire house; address city clerk.

Neb., Scottsbluff—There is talk of a city hall being built this season; address city clerk.

Neb., Seward—Wm. Wullenwaber has been appointed chairman of committee by board of supervisors for conference with architects to decide on plans for county jail and sheriff's residence; cost \$12,000; brick, 5 steel cells, slate roof, modern.

Neb., Wahoo—Woman's club back of proposition for Carnegie library; address secretary club.

Neb., Weeping Water—Executive committee of library association recommend that Carnegie library proposition be submitted to the voters at spring election; address secretary of association.

Wis., Ashland—The county board of supervisors has engaged Vaughn, Meyer & Sweet, electrical engineers, Milwaukee, to prepare plans and award contracts for all electrical installations and fixtures for the new \$275,000 county court house now under construction.

Wis., Madison—Hearing will be given on March 12, to a resolution favoring the building of a new city hall; plans prepared by Building Commissioner Dean will be on exhibition; to be 5-story, city hall and auditorium, costing from \$125,000, to \$150,000; Mr. Norman, city clerk.

Wis., Superior—The public buildings committee of the house of representatives has approved the purchase of a site for the federal building here, to cost \$14,000.

Wis., Winter—Plan being considered for dividing Sawyer county and building new county offices; R. W. Reiser, Coude-ray, chairman of meeting.

Wyo., Cheyenne—Legislature has voted for \$150,000 addition to the state capitol; address secretary of state, Cheyenne.

### BIDS WANTED.

Colo., Greeley—Bids received by county commissioners of Weld county, until 11 a. m., March 22, for construction of a court house; plans by W. N. Bowman, architect, 915 Central Savings Bank building, Denver; check for 5 per cent; plans on deposit of \$100.

Idaho, Blackfoot—Bids received by G. H. Holbrook, county clerk, until March 12, for an addition to the county court house.

Minn., Mountain Iron—Bids received by George Eilertson, village clerk, until 8 p. m., March 2, for proposed village hall; check for 5 per cent.

Mont., Hamilton—Reported bids being called for on addition to the county court house; address county clerk.

Mont., Havre—Reported bids will be received by county commissioners until March 25, for a county court house to cost \$150,000; F. P. Bossuet, architect, Havre.

Neb., Norfolk—Bids received by Andrew G. Nelson, custodian, until 2 p. m., March 25, for changes in the first floor of the U. S. post office; drawing and specifications on application.

Neb., University Place—Reported new bids will be called for on proposed library building; bids just in were all higher than the funds available would warrant.

Wash., Seattle—Sub bids wanted by Harrington & Peters, Oriental building, contractors, for 7-story reinforced cold

(Continued on page 23.)



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE

**HAAKINSON & BEATY CO., SIOUX CITY, IOWA**

ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS

### BIDS FOR SCHOOL BUILDING.

Independence, Wis.

Notice is hereby given that sealed proposals for the construction of a school building at Independence, Wis., to include all labor and material will be received by the Board of Education of the joint school district No. 6, of Independence and Burnside, Wis., at the city of Independence, Wis., until two (2) o'clock in the afternoon of the eleventh day of March, 1915. All bids must be in strict accordance with the plans and specifications for said building prepared by Olin H. Round, Architect, St. Paul, Minn. Plans may be seen at the following places, to wit: At the office of the Board of Education in the village of Independence, Wis., at the office of the Architect, 202 Oppenheim Bldg., St. Paul, Minn., and at the Builders' Exchange in the following places: St. Paul, Minneapolis and Milwaukee.

A certified check for five hundred dol-

lars \$(500.00) must accompany each bid. All checks of unsuccessful bidders will be returned to them within five days after the awarding of the contract. The successful bidder will be required to enter into contract satisfactory to the said Board of Education and to give a bond satisfactory to said board in the full amount of the contract price, which bond shall in all respects comply with the laws of the state of Wisconsin.

The right is reserved to reject any or all bids.

The Board of Education will also receive bids for heating and ventilating plumbing and electric wiring at the same time and place. Plans for this part of the work will be on file as mentioned above. A certified check for three hundred dollars (\$300.00) must accompany each bid for this part of the work. The right is reserved to reject any or all of these bids. A bond in the full amount of the contract to be furnished the same

as specified for general contract.

Contractors desiring copies of plans and specifications for personal use may obtain same upon application to the architect and upon depositing fifteen dollars (\$15.00) one half (½) of which will be retained by the architect for cost of duplicating plans and specifications, and balance will be refunded if plans are returned not later than the date of opening bids.

Plans are now on file.

(Signed)

O. P. HUFF,  
President of Board,  
ANTON SENTRY,  
Treasurer of Board,  
DR. C. F. PETERSON,  
Clerk of Board.

Note:—If checks are forwarded for plans, etc., sign your acceptance of the conditions of this notice and return same with check.

Accepted.....1915.



You can test this  
"NEW WAY" Con-  
crete Mixer at your  
own work without  
the risk of a cent!

You'll find that it will  
stand the hardest kind of  
work for the longest time  
at the least expense.

You'll find that it will do the work in about half the usual  
time.

It is built for speed, durability and economy.  
Note this again. Our machines are sold on ten days' free  
trial, and our guarantee protects you absolutely. It is  
worth investigating. Get Catalog E.

**E. Wege Concrete Machinery Co.**

118 SOUTH SECOND ST.

LA CROSSE, WIS.

## Do You Label Your Work?

There is nothing more dignified or elegant than  
our large Weatherproof Fiber Cardboard Signs.  
More serviceable than iron, wood or cloth.  
Packed in a box—printed—ready for displaying.

**2 x 3 ft. SIGNS --- 12c EACH.**

\$12.00 per 100. Check with the order. We pay  
the freight. Other sizes, 1½x3 ft. to 3x4 ft.,  
proportionate prices. Send for an Illustrated  
Folder.

**INDEPENDENT PRINTING CO'S. of U. S.**

General Sales Offices - McLachlen Bank Bldg.,  
Washington, D. C.

## At Last a Machine Success- fully Mixing Hard Wall Plaster and Brick Mortar

The sensation and the talk of the Chicago Cement  
Show was the mixing of hard wall plaster with hair and  
fibre with the Harding Mortar Mixer. We mixed the  
actual material for the "show me" type of contractor,  
and made good with him.

At the Omaha Cement Show, March 2d-6th, watch us  
mix hard wall plaster, Portland and Keen cement, lime  
mortar and hard finish.

Note the simple mixing principle and the way it  
cleans itself.

This machine is not an experiment; has been in use  
three years.

First—With this Mixer you save the wages of one to  
six laborers on every job.

Second—You save one-fourth of your material bill.

Third—You get perfect mortar, impossible to mix by  
hand. Machine mixed mortar is uniform, every batch  
alike. It spreads easier, hangs together better and sets  
harder.

Fourth—You make a good mortar man out of any  
laborer.

Fifth—You have mortar all the time, and exact  
amount to last you until quitting time.

Write us for proof from contractors and details now.  
Sold on free trial.

## Mortar Mixer Corporation

200 Washington Street

Iowa City, Iowa

Architects are beginning to specify machine mixed mortar. An ex-  
ceptional proposition for representatives in unoccupied territory.



## Steam Pump For Sale

For Sale—one 16x10 $\frac{1}{4}$ x12 Buffalo Steam Pump, 8-inch suction and 7-inch discharge. Pump is in good condition and can be seen in operation the next few days only.

**Oswald & Winston**  
597-8 Globe Bldg. Minneapolis

### HOSPITAL. York, Nebr.

Sealed proposals for the erection of a two story and basement hospital building, including wiring, plumbing and heating, will be received by the Board of Directors of Evangelical Lutheran Hospital Association, at York, Nebraska, on or before the hour of 2 o'clock, P. M., March 18, 1915, in accordance with the plans and specifications prepared by W. F. Germandt, Architect of 437-439 State Bank Bldg., Omaha, Nebraska. These are on file at office of Fred Strobel, Clerk of Dist. Court at York, Nebr., and at Architect's office. Special sets of same for exclusive use of only responsible and competent contractors may be secured from Architect.

A—For General Contract, Deposit Required, \$25.00.

B—For Heating and Plumbing, Deposit Required, \$15.00.

C—For Wiring and Conduit Contract Deposit Required, \$10.00.

Each proposal must be accompanied by Certified Check to amount of \$1,000 for A, \$500 for B, \$100 for C, made payable to Julius Schleuter, Treasurer, which

## FOR SALE

Twelve cubic foot Standard Mixer, equipped with folding platform, power pump and 125 feet 1 $\frac{1}{2}$ -inch hose for pumping own water, used less than two weeks, thoroughly overhauled and freshly painted, guaranteed to be in brand new condition, \$485.00 if taken at once for cash. Freight paid to any point within 100 miles. Write or wire PAUL N. KINGSLEY, Strawberry Point, Iowa.

### FOR SALE AT A BARGAIN.

One 300-H. P. Twin City Cross Compound Corliss Girder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.

### SPECIAL HOTEL ACCOMMODATION FOR SALE.

\$150.00 worth of room accommodation at the best hotel in Minneapolis for sale at reasonable discount. Can be used at any time. Will sell all or any part. Save money on your traveling expenses by writing us.

**THE IMPROVEMENT BULLETIN**  
Minneapolis Minn.

will be forfeited to the Ass'n., if award of contract is made and the successful bidder does not enter into contract and furnish the required surety bond within ten days of date of award of contract, without protest. Proposals shall be made only on regular forms furnished by Architect, further information and instruction in specification. Right is reserved to reject any or all proposals, or to accept such proposal as man seem to be to best interest of the Evangelical Lutheran Hospital Association.

By Order of BOARD OF DIRECTORS,  
FRED STROBEL, President.  
O. BATZ, Secretary.

### CREAMERY BUILDING.

Wendell, Minn.

The undersigned hereby gives notice that sealed proposals for the erection of one story brick creamery building, including all labor and material, will be received by the Creamery Board, until the hour of 2 p. m., on the 15th day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by A. H. Fass, architect of Elbow Lake, which may be seen at the office of

the architect or at Bank of Wendell, Minn., on and after Feb. 20th, 1915.

A certified check for 5 per cent, payable to the order of John Raines, Pres., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of full amount for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed) GEORGE SHUCK, Secy.  
Place, Wendell, Minn.  
Date, Feb. 15, 1915.

### ELECTRIC CONTRACTORS.

Le Sueur, Minn.

The City of LeSueur, Minn. will receive bids on 1—150-K. V. A. 3-phase, 60-Cycle, 720-R. P. M. Generator, 2,300 v.; also on 1—90-K. V. A., 3-phase, 60-Cycle, 90-R. P. M. Generator, 2,300 v. Bids will be opened Friday, March the 5th, 1915, at 8 o'clock, P. M. The city reserves the right to reject any or all bids. Water and Light Dept., City of Le Sueur, Minn., G. W. SUNDERMAN, Superintendent.

# Luxfer delivers the Daylight.

While Owners and Tenants appreciate Daylight—the Contractor is the one who installs it. It is therefore to his greatest credit that the building should be Daylighted right.

Thousands of LUXFER installations prove the Contractors' good judgment. And its value as a Daylighting System is best measured not only by its great number of installations but by its remarkable efficiency and satisfaction it is creating for builders and owners everywhere.

Let Daylighting Experts co-operate with you in your next daylighting problem. Write today.

### LUXFER PRISM CO.

Indianapolis—20 Union Trust Bldg.  
New Orleans—904 Hennen Bldg.

Dallas—Builders' Exchange.  
Philadelphia—411 Walnut St.  
Los Angeles—1835 S. Main St.  
New York—607 W. Broadway.  
Detroit—Builders' Exchange.

Milwaukee—Stroh Bldg.  
St. Paul—365 University Av.  
Minneapolis—1137 Plymouth Bldg.  
San Francisco—445-47 Turk St.  
Rochester—38 Exchange St.

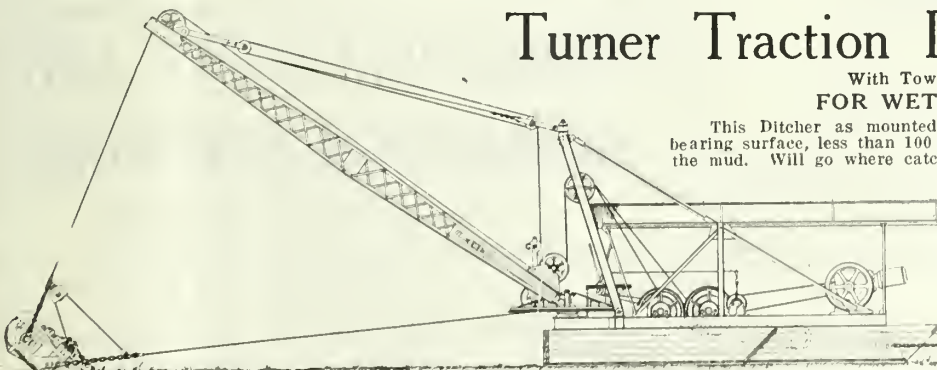
Chicago—Heyworth Bldg.  
Boston—49 Federal Street.  
Cleveland—419-20 Citizens' Bldg.  
Duluth—310 W. Michigan St.  
Kansas City—909-10 N. Y. Life Bldg.



# Turner Traction Dragline Ditcher

With Towing Rig and Drag Scow  
FOR WET OR SWAMP WORK

This Ditcher as mounted for swamp work has 700 square feet of bearing surface, less than 100 pounds to the foot, and no running parts in the mud. Will go where caterpillar and track machines fail. Forty-foot boom, 1 $\frac{1}{2}$ -yard bucket, 65-H. P. double-cylinder oil engine. Kerosene or distillate fuel. Powerful in hard digging and stumps. Towing rig a powerful stump puller. Does not straddle the ditch and crush banks. No track building. Only two men required. Lowest ultimate cost per yard. If doing either wet or dry work you should use this machine.



UNITED IRON WORKS COMPANY

SPRINGFIELD, MO.



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co.

YOUNGSTOWN, OHIO

MANUFACTURERS OF  
**Expanded Metal for Concrete Reinforcement**  
**Expanded Metal Lath for Plastering Purposes**  
**Metal Studding, Furring Strips, Etc.**  
**for Use with Expanded Metal Lath.**

**"Mahoning" Brand Expanded Metal**  
 In Gauges No. 7 to 12 Inclusive.

**"Youngstown" Brand Expanded Metal**  
 In Gauges Nos. 7 to 20 Inclusive.

SEND FOR CATALOGUE

## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota  
 Lumber Exchange Building, Minneapolis, Minn.

## The *Atlas* Mixer

Furnished  
 with  
 Batch  
 Hopper  
 or  
 Power  
 loader.



5  
 and  
 11 foot  
 Capacity

### It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

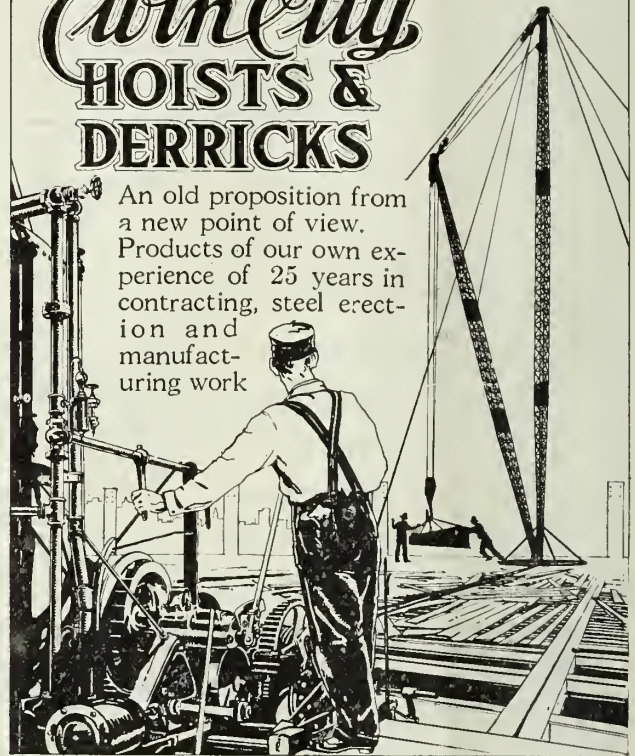
## Atlas Engineering Company

MILWAUKEE, WIS.

1137-1138 Plymouth Bldg., Minneapolis, Minn.  
 Telephones: Nicollet 5293. Center 2432.

## Twin City HOISTS & DERRICKS

An old proposition from a new point of view. Products of our own experience of 25 years in contracting, steel erection and manufacturing work



Steam, Electric and Gasoline. Our catalog may be worth money to you.

## Minneapolis Steel & Machinery Co.

2853 Minnehaha Ave.

Minneapolis, Minn.

## STRUCTURAL STEEL AND ORNAMENTAL IRON WORK

Trusses, Girders, Columns,  
 Stairways, Fire Escapes, &  
 Grilles.

Write us. Estimates cheerfully furnished.

## Davenport Machine & Foundry Co.

DAVENPORT, -- -- -- -- IOWA



**BIDS SOLICITED.****Rural Highways, Winona, Minn.**

NOTICE IS HEREBY GIVEN, That the County Auditor of Winona County, Minnesota, will receive sealed bids for the improvement and construction of State Rural Highways, numbers 85, 86, 87, 88, 89, 90, 91, 95 and 96 in Winona County, Minnesota, in accordance with Plans and Specifications therefor on file in the office of the County Auditor, and subject to the approval of the engineer of the State Highway Commission and County Auditor. Separate bids for the improvement of each of said roads must be submitted.

A separate contract for the improvement of each of said roads will be let to the lowest responsible bidder.

Such bids will be received at the office of the County Auditor of said Winona County in the Court House in the City of Winona, State of Minnesota, on the 23rd day of March, 1915, up to two o'clock P. M. No bid will be entertained which by more than thirty per cent exceeds the estimated cost of the construction and improvement of said roads respectively.

Each bid must be accompanied by a certified check upon a bank in Minnesota, and made payable to said County Auditor, in the sum of not less than ten per cent of the amount of the bid.

The right to reject any and all bids is reserved by said County Auditor.

A deposit of \$20.00 must accompany all requests for plans and specifications, which will be returned only to those presenting bona fide bids.

H. B. CHILDS,  
District Engineer,  
Winona, Minnesota.

**SCHOOL ADDITION, HEATING, VENTILATING AND PLUMBING.****St. Cloud, Minnesota.**

Sealed proposals will be received at the offices of the Board of Education of St. Cloud, Minnesota, until the hour of 4 P. M., Monday, March 22, 1915, for the erection of a four-room brick addition to the Lincoln School at East St. Cloud, Minnesota—the heating, ventilating and the plumbing of the entire building.

Bids must be in accordance with the plans and specifications as prepared by R. C. Buckley, Architect, St. Cloud, Minnesota. Copies of the same may be obtained from the Architect, upon a deposit of fifteen (\$15.00) dollars, of which seven dollars and a half (\$7.50) will be refunded upon the return of the plans and specifications, the balance being retained to cover the cost of reproduction.

Plans are on file at the Builders' Exchanges of both Minneapolis and St. Paul, Minnesota, and at the Architect's office.

Bids will be taken (in addition to the heating system as specified) on any reliable Vapor Vacuum Steam Heating system, the same being from plans and specifications as furnished by the respective manufacturers, which have received the approval of the Commissioner of Public Schools. It will be necessary that two sets of plans and specifications be filed with the Commissioner of Public Schools. No bids will be considered unless this approval is made.

Bids must be accompanied by a certified check in the sum of five (5%) per cent of the amount of the bids, made payable to the treasurer, Mr. C. S. Bunnell, the same to be forfeited to the School District if the successful bidder

fails to enter into contract and furnish a satisfactory Surety Company Bond, within seven (7) days after having been notified of the acceptance of his bid.

The Board reserves the right to reject any or all bids.

BY ORDER OF THE BOARD OF EDUCATION.

W. W. Smith, President,  
Julius Adams, Secretary.

**ADVERTISEMENT FOR BIDS FOR LABOR AND MATERIALS IN THE CONSTRUCTION OF AN ELECTRIC LIGHT PLANT FOR THE VILLAGE OF WINDOM, MINNESOTA.**

Notice is hereby given that until 7 o'clock, P. M. on the 16th day of March, 1915, bids for labor and materials required in the construction of an electric light plant for the Village of Windom, Minnesota, will be received according to the plans and specifications which are on file in the office of the Village Recorder of said Village of Windom, Minnesota, and also in the office of Earle D. Jackson, Consulting Engineer, St. Paul, Minnesota, and may be there examined and seen.

The work is divided into two parts, viz.:

Part I., consisting of furnishing and erecting one 125 horse power fire tube boiler, breeching, piping connections, etc., one 75 k. v. a. and one 100 k. v. a. engine-generator unit, switchboard, etc., for the electric light plant of the Village of Windom, Minnesota.

Part II., consisting of furnishing and erecting poles, wire, street lamps, transformers, etc., for the electrical distribution system of the Village of Windom, Minnesota.

Bids will be received on complete parts only.

Bids must be made out on the bidding blanks furnished by the consulting engineer for this purpose, and must be accompanied by a certified check for 5 per cent of the contract price, as a guarantee that the bidder will enter into a contract and perform the work in case the contract is awarded to him. In addition the successful contractor must give a bond for the carrying out of the work on award of contract for the full amount thereof, to continue for one year from date of acceptance of work.

The sum of \$3.00 (to cover cost of printing and mailing) must accompany applications for copies of plans and specifications and the latter must be returned with bid, otherwise the bid will not be considered. The consulting engineer reserves the right to make any minor changes in the plans or specifications before award of contract.

Address bids to the Village Recorder, Windom, Minn.

The right is reserved to reject any or all bids.

Village of Windom, Minnesota,  
W. M. HALE,  
Village Recorder.

**BRIDGES.****New Hampton, Iowa.**

1. Sealed bids will be received at the office of the County Auditor, New Hampton, Iowa, until 1:30 o'clock, P. M., April 7, 1915, for Five Steel Truss Bridges and Structural Steel for Ten I-Beam Bridges, plans and specifications for which may be seen at the above office.

2. A certified check for five per cent (5%) of bid, made payable to P. E. McGinn, County Auditor, shall be filed with each bid, which, in the case of the

bidder (or bidders) receiving the award, should he fail to execute a contract and file a bond within ten (10) days after the acceptance of his bid, shall be forfeited to the county as liquidated damages.

3. All bids must be on the regular form furnished by the County, sealed and plainly marked.

4. The successful bidder will be required to furnish a bond for 50 per cent of contract, issued by responsible surety, approved by the Board, and drawn to protect the County and any subcontractor.

5. The county reserves the right to waive defects and to reject any or all bids.

P. E. MCGINN,  
County Auditor, New Hampton, Ia.

**JOBS****WANTED.**

A thorough experienced bookkeeper and stenographer for contractor's office. Must have experience and good recommendations. Give full particulars as to age, experience and whether married or single, and enclose self addressed envelope for reply, in first letter. Address W. J. Curren, Valley City, N. D.

**POSITION WANTED.**

By Architectural Draftsman, 12 years' experience. First class references. Moderate salary. Address box 85, Improvement Bulletin, Minneapolis, Minn.

**POSITION WANTED.**

Young man, high school graduate, with two years' practical experience in architectural drafting and general estimating, wishes position in some branch of the building line. Best of references; address, Box 64, care of The Improvement Bulletin.

**POSITION WANTED.**

Reliable young man, 23 years old, open for position with contractor. Have had 5 years experience at carpenter trade, fair knowledge of plans, estimating, and everything pertaining to frame house construction; will go anywhere to obtain more knowledge of building and estimating. Address Box 92, Improvement Bulletin, Minneapolis, Minn.

Wanted—Enterprising experienced builders' hardware man of good appearance; one acquainted with architects and large builders in city; must be capable of making estimates correctly and soliciting for same; give reference and state age and salary wanted; address Box 750, Improvement Bulletin.

**ROLLER WANTED.**

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTLE, Sioux City, Iowa.

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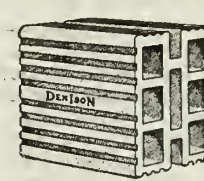
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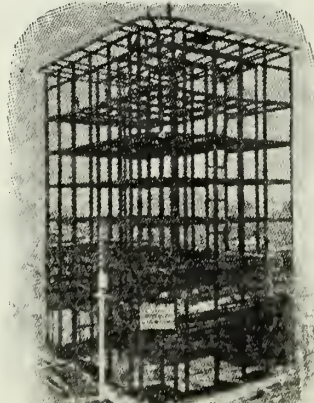
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**PUBLIC BUILDINGS**—Cont'd. from page 17.  
storage building, until March 5, for hollow tile, reinforced steel, structural steel, sheet metal and roofing, plumbing, electric work, etc.

#### CONTRACTS AWARDED.

**Iowa, Garner**—Contract for library building to B. L. Stratton, Mason City, at \$5,054; heating to C. J. Schneider, city, at \$258; plumbing to W. J. Daly Co., Mason City, at \$159. Other bidders were: B. Y. Construction Co., Dows, Iowa, building, \$5,521; Cowan & Herman, Algona, Iowa, \$5,491; Geo. Peterson, Clear Lake, Iowa, \$5,455; J. F. Victoria, Britt, Iowa, \$5,496; P. R. Wells, Mason City, Iowa, \$5,916; Chris Rye, Mason City, Iowa, \$5,773; A. E. Smith, Waterloo, Iowa, \$5,115; J. F. Cobler, Carroll, Iowa, \$6,003; L. F. Parkinson, Iowa City, Iowa, \$5,731; T. F. McDonald, Iowa City, Iowa, \$5,316; W. J. Daly Co., Mason City, Iowa; heating at \$272; R. E. Pauley, Mason City, Iowa, heating, \$265.

**Neb., Lincoln**—Contract to J. H. Weese of Omaha for a \$275,000 addition to the Lincoln post office at \$213,720; the bid of F. P. Gould & Sons, Omaha, was \$245,000.

**Ore., The Dalles**—Contract for post office building to be erected here awarded to Geo. Isackson, 1013 E. Irving st., at \$79,658, to be of sandstone; stone and steel construction; contract is for complete, including mechanical equipment, interior lighting fixtures and approaches.

**Wis., Chippewa Falls**—Contract to Wm. Bartlett of Eau Claire for decorating new library and to Lashaway Electric Co., city, for electrical work.

**Wis., New Holstein**—Contract to W. S. Patterson & Co., Appleton, on plumbing for lock-up at \$370; painting to W. C. Burgdorf at \$62.50; hot water heat to F. W. Matthaeus at \$318; electric wiring to Wm. H. Reiss at \$63; septic tank to F. W. Matthaeus at \$45.

**Wis., Sturgeon Bay**—The Co-operative Orchard Co. is preparing to build a large hotel in the town of Sevastopol, near this city; J. F. Martin, Manitowoc, manager.

#### BIDS WANTED.

**Neb., York**—Bids received until 2 p. m., March 18, for 2-story and basement hospital building, including wiring, plumbing, heating, etc.; W. F. Gernandt, architect, 437-39 State Bank building, Omaha; checks of \$1,000, \$500 and \$100; official advertisement in the Improvement Bulletin this week; Fred Strobel, president.

#### CONTRACTS AWARDED.

**Mont., Great Falls**—Contract to Leigland & Kleppe, city, for construction New Park hotel at about \$150,000; other bidders were: Lease & Richards, Brayton Engineering Co.; C. O. Jarl; Skirner & Malcolm, Olson & Johnson and Ness-Thiesen Construction Co., city, and Horton & Willets, Williston, N. D. and Edmonton, Alberta; The Sound Construction Co., of Seattle; Butler Construction Co. of Portland; Seene Bros. Construction Co., Denver. Electric work to Electric City Construction Co.; heating to Boyd Bros., city, at \$30,000.

**Mont., Judith Gap**—The Gap hotel, grill and buffet burned; loss \$15,000.

**Ore., McMinnville**—Contract to A. F. Arthur for 2-story annex to McMinnville hospital.

**Wis., Grand Rapids**—Contract with John Winecki of Stevens Point, for approximately 4,200 yards plastering in the Witter hotel.

**Wis., Racine**—Contracts have been awarded by the new management of the Racine hotel for the redecorating and remodeling of the dining room and for other improvements.

## THEATRES AND HALLS

### HOTELS AND HOSPITALS

**Iowa, Lenox**—The Lenox Hotel Co., composed of 12 business men, has been organized to build a fireproof hotel to cost not less than \$15,000; plans under way; address secretary.

**Iowa, McCallsburg**—Plans are being made by Reimer & Herlin, architects, Marshalltown, Iowa, for a \$10,000 hotel here; address the mayor.

**Minn., Bemidji**—As soon as \$15,000 is raised locally, work will begin on the proposed summer hotel at Birchmont Beach; Geo. W. Cochran for information.

**Minn., Janesville**—An electric elevator will probably be put into the De Graff house; C. H. Dunham, proprietor.

**Minn., Le Sueur Center**—County board has called special election for March 9, to vote on hospital proposition involving a number of other counties.

**Minn., New Prague**—The sanitarium at Graham Lake (Woodland Park) is being enlarged.

**Minn., Thief River Falls**—The Physicians' Hospital Co., capitalized at \$25,000, has been organized, for the purpose of building and equipping a modern hospital; Dr. F. H. Froelich, secretary.

**Ore., Portland**—Alder hotel burned; loss \$75,000.

**Ore., Walla Walla**—Plans for the \$300,000 hospital here, to replace the one recently burned, will be drawn by Rebert F. Tegan, formerly of Manitowoc.

**Wash., Olympia**—C. F. Martin is low bidder for 1-story reinforced concrete hotel building; W. W. Voorhees, architect, Eitel building, Seattle, Wash.

**Wash., Seattle**—A. V. Williams, New York block, is having plans prepared for a 3-story hotel to cost about \$500,000. 7th av. and King st.; also, has a second hotel and several stores in view, these at Jackson and 6th av. S.

**Wis., Green Bay**—Plans for a new hospital, to cost approximately \$65,000, submitted by the directors of the deaconess' sanitarium at annual meeting March 20.

**Wis., Kenosha**—The county board has made final arrangements for completion of proposed tuberculosis sanitarium; Louis R. Grosvenor, chairman, committee having charge of the matter.

**Wis., Ladysmith**—Thos. Baker will make improvements in the Hotel Baker, making an addition to the rear, repapering, repainting, etc.

**Wis., Ladysmith**—Landlord Torley will enlarge the Gerard hotel and add new heating plant.

**Wis., Monroe**—Plans for a 12-room addition to the Ludlow house are being prepared by L. W. Claude, architect, of Madison, for the owner, John J. Aeschlimann.

**Wis., Oshkosh**—Purchase of furniture and equipment for the county tuberculosis sanitarium has been postponed until the appointment of a superintendent is made at the March meeting of the board, which convenes on the 2d prox.

**Ida., Bonners Ferry**—Knights of Pythias have appointed committee, of which H. L. Medbury is chairman, to secure plans for a lodge building and to submit plans for raising the money needed.

**Iowa, Davenport**—H. E. Greenbaum and A. H. Blank will remodel large brick building into picture theater; cost \$50,000.

**Iowa, Dubuque**—First Baptist church will be remodeled into picture theater; cost \$15,000; by the Hopp Amusement Co.; Harvey W. Fulton, manager; front will be remodeled, interior changed and decorated, seating capacity for 1,000.

**Iowa, Elk Horn**—Plans for proposed opera house to be built by John Peterson, provide for a building, 46x80, cement, stage 16x24; will accommodate dramatic or motion picture shows.

**Iowa, Melbourne**—Plans for a store and lodge building to cost \$10,000 are being prepared by Reimer & Herlin, architects, Marshalltown, Iowa.

**Minn., Hokah**—Old town hall burned; total loss.

**Minn., Mankato**—Site has been purchased by Sandon Bros. on which they will build a picture theater house; plans not yet drawn; site cost \$5,000.

**Minn., North Branch**—Masons are considering building a temple; no definite action yet.

**Minn., St. Paul**—Alumni of St. Thomas college planning to raise funds of \$11,000 for interior completion of \$75,000 club house and armory; John A. Hartigan, secretary, executive committee.

**Mont., Geraldine**—Ground broken for 1-story frame picture theater; M. C. Morrow, owner.

**Mont., Kalispell**—The Grange at Lower Valley is preparing to build a hall.

**Mont., Livingston**—Odd Fellows are contemplating new building; address the secretary of the order.

**Mont., Malta**—Directors of the Milk River Amusement Co. are considering the erection of a new and modern theater building, to be built this spring.

**Mont., Scobey**—Lyceum theater to be enlarged by addition of 100 feet in length.

**Neb., Aurora**—Commercial club circulating petition for council to build city hall for assembly purposes; address city clerk.

**Neb., Fremont**—Preliminary plans for the building of the homes for Masonic orphans are being made; one cottage for girls and one for boys; cost about \$5,000 each; address secretary Masonic lodge, Fremont.

**Neb., Holdrege**—Mass meeting of citizens will discuss the needs of the city for an auditorium; address city clerk.

**Neb., North Platte**—A loan is being negotiated for \$60,000. the money to be used in building the proposed Yeoman castle here; address the secretary.

**Neb., Omaha**—Work on proposed club house for Omaha Gun club will be commenced as soon as danger from high water in the Missouri is passed; Don McCown, secretary.



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**N. D., Dickinson**—Committees named to provide fair grounds and erect buildings for the Stark county fair.

**S. D., Canova**—Business men and others planning on building town hall; address the mayor.

**S. D., Hartford**—Arrangements made for a new opera house, construction to begin in the spring; address the mayor.

**S. D., Lake Andes**—Arrangements completed for erection of dance pavilion at the lake.

**S. D., Ludlow**—Stockholders of Erickson school house voted to sell and build hall on Hay Creek, southeast of Auburn post office, to be called Peaceful Valley hall.

**S. D., Redfield**—Lyric theater burned; loss \$35,000, insured for \$10,000; Roy Greeman, owner.

**S. D., Sioux Falls**—Odd Fellows will build lodge home on site already secured; probable that the Eagles will build and also the Elks, both this year; address the various secretaries.

**Wash., Kennewick**—Farmers on route 1 will form association and lay plans for a club house; W. H. Allison for particulars.

**Wash., Winona**—Odd Fellows have appointed committee, of which G. M. Harrington is chairman, to investigate cost of a 2-story brick lodge building.

**Wis., Manitowoc**—The Elks have decided definitely to improve their club house by building an addition on the west end, adding a third story to the structure, installing a bowling alley, and other features; Edwin Schuette is chairman of the special committee having the project in charge.

**Wis., Milwaukee**—Plans will mature March 18 for a \$200,000 theater, store and office building to be erected on 3d st. for the Fred Miller Brewing Co.; brick, concrete and steel construction, fireproof, theater to seat 2,000; Wolff & Ewens, architects, 437 E. Water st.

**Wis., Neenah**—Committee of Elks will be appointed in a few days to devise ways and means for a new club house and hall; address the secretary.

**Wis., Phillips**—Contract to M. J. N. Schneider of Black River Falls for Odd Fellows' hall; 36x76, concrete blocks and stone, \$10,000; work to begin in the spring.

#### BIDS WANTED.

**Mont., Butte**—It is expected bids will be advertised for next week on construction of Miners' union hall; address secretary Butte Miners' Union o. 1; cost of proposed building will be about \$35,000.

**Wash., Walla Walla**—Bids will be called for at once for construction of \$30,000 brick or reinforced concrete theater building, to be occupied by Crews Amusement Co., which will furnish interior at cost of \$15,000; Geo. B. Purvis, architect, Seattle.

**Wis., Kenosha**—Bids received by Jos. Lindl, architect, until 5 p. m., March 8, erection of Eagles' club for Kenosha Aerie No. 1055, F. O. E.; both general and separate contract bids will be received; check for 5 per cent; Leo. H. Flach, chairman, building committee.

#### CONTRACTS AWARDED.

**Minn., Mankato**—Contract to J. B. Nelson Construction Co. for Odd Fellows' building; plans by Albert Schippel, architect, city; 2-story and basement, \$18,000; first floor for store purposes, second for lodge.

**Minn., Windom**—Contract to J. B. Nelson Construction Co., Mankato, for general, for store and hall for Windom lodge No. 108; contracts for steam heat, plumbing and electric wiring not let; Albert Schippel, architect, Mankato.

**Neb., Albert**—Contract to John Ohlson, Loup City, for the Masonic Temple and A. H. Shepard's store building; cellar excavated, brick work, begin in March.

### SCHOOLS

**Iowa, Ames**—Village of Cole has authorized issuance of \$33,000 bonds for new school in Story county and purchase of additional ground for school purposes.

**Iowa, Colo**—Plans are being prepared by Reimer & Herlin, architects, Marshalltown, Iowa, for a school; cost, \$34,000.

**Iowa, Manilla**—Election will be held March 15, to vote on \$45,000 school bonds, for new school.

**Iowa, Scranton**—Plans in progress by architects, Trunk & Gordon, St. Joseph, Mo., for 2-story school, brick and stone, 64x128; cost \$35,000; concrete foundation, common facing brick, Bedford or equal stone, brick and stone, d. s. and wire glass, W. S. gypsum or equal plaster, vacuum steam heat, wood and concrete floors, oak and yellow pine finish, boilers, blackboards, cementing, electric bells, lights and motor, fireproofing, hollow tile, iron beams, metal or wire lath, plumbing, skylights, speaking tubes, telephone system, ventilators.

**Iowa, Sioux Rapids**—Contract awarded to Jas. P. Riddle for school here, at \$45,000.

**Minn., Crosby**—The Crosby Commercial club has appointed a committee to interview the school board of independent district No. 51, regarding employment of an architect for plans for new school; cost \$150,000.

**Minn., Flakne**—Bids received until 2 p. m., Feb. 27, for a school in district No. 152, Marshall county; plans with district clerk, Julia Flakne.

**Minn., Kenyon**—Plans are in progress by architects, Alban & Lockhart, Endicott building, St. Paul, for new high and grade school, brick, 2-story and basement, steam heat, modern equipment, assembly room, gymnasium, domestic science; plans out about April 1, cost, \$60,000. J. A. Holmen, secretary.

**Minn., Proctor**—Plans will be ordered for school soon; cost, \$40,000, modern, stone and brick, two stories, fireproof.

**Mont., Anaconda**—Plans are being discussed for erection of an addition to the public high school; cost about \$100,000.

**Mont., Salesville**—Bids received until 10 a. m., Feb. 25, for school in Salesville district No. 25, Gallatin county, Agnes D. Tomlinson, Salesville, Mont., clerk; plans with H. A. Bollinger, attorney, Gallatin block, Bozeman.

**Mont., Opheim**—A modern school will be erected here at once.

**Neb., Hastings**—Petition is being circulated by school board members for issuance of \$130,000 school bonds for new building.

**Neb., Kearney**—Catholic congregation will erect a parochial school, work to start in spring.

**Neb., Nickerson**—Plans are being made for school, and meeting will be held March 6, to complete plans; cost, \$15,000, bonds voted.

**Neb., Thayer**—District No. 10 will erect school, cost, \$3,600. 25x36.

**S. D., Hazel**—\$20,000 bonds were voted for modern school building.

**N. D., Rolla**—Rolla consolidated high school burned, loss \$20,000; insured at \$15,000. for new public school building at \$5,900.

**Wis., Green Bay**—Trustees of St. Joseph's Roman Catholic congregation, have been authorized to secure plans and award contracts for the erection of a church and school building; cost \$25,000; architect not yet selected; Rev. Matt Kraus, rector.

**Wis., Oshkosh**—Following bids were low on construction of \$100,000 building, for Oshkosh normal: general, Sterling Engineering and Construction Co., Milwaukee, Wis., \$69,450; heating and ventilating, Downey Heating & Supply Co., Milwaukee, \$7,850; plumbing, W. S. Patterson Co., Appleton, Wis., \$4,183; marble and tile, Bredster Marble Co., Milwaukee, \$9,972; electrical work, Geo. F. Rohn, Milwaukee, \$3,111; all above appropriation; bids have been referred to governor for approval or rejection. Van Ryn & DeGelleke, architects, Milwaukee.

**Wis., Superior**—Resolutions passed by county board for erection of an industrial school in Douglas county.

#### BIDS WANTED.

**Iowa, Council Bluffs**—Bids received until 5 p. m., March 15, for installation of all plumbing and fixtures in buildings on avenue B, avenue E, Harrison and 3d sts. schools, at the office of J. J. Hughes, secretary, 105 Pearl st., check 5 per cent; Frederick E. Cox, architect, Council Bluffs.

**Iowa, Panora**—Bids for erection of a school in sub-district No. 1, Cass township, will be received until March 6, 12 m., by Garfield Wall, secretary; plans at Guhrle County National Bank.

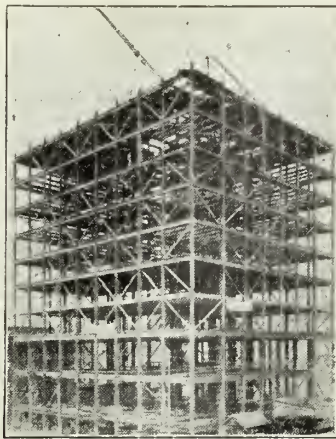
**Minn., St. Cloud**—Bids will be received until 4 p. m. March 22, for 4-room brick school, addition to the Lincoln school, East St. Cloud, plans by R. C. Buckley, architect, St. Cloud, Minn.; check, 5 per cent; this work was advertised June 20, 1914. Official advertisement in the Improvement Bulletin this week.

**Neb., Oakland**—Bids will be received until 8 p. m., March 8, at office of president, school board, for an addition to school building; plans with Secretary A. F. Wickstrom, and office of president of board, First National Bank building.

**N. D., Clyde**—Bids received until 10 a. m., March 18, for a frame school in Huron township, plans by Haxby & Gillespie, architects, Fargo, N. D.; check, 5 per cent; plans at office of Builders Exchange, Fargo, Grand Forks, and with president at Clyde, N. D., Republican office, and also architects; bids taken same time and place for heating and ventilating, steam or furnace heat. Mrs. Adah Hyde, president.

**Wis., Durand**—Andrew Roth, architect, La Crosse, Wis. has been engaged to prepare plans for a \$15,000 dormitory





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and school house for the Holy Rosary congregation at Lima, Wis., bids in about March 1, Matt Brunner, R. F. D. No. 2, Durand, Wis., is chairman.

**S. D., Raymond**—Bonds in sum of \$18,000 have been authorized issued for new modern school; contract to be let at once.

**Wis., Independence**—Bids received until 2 p. m., March 11, by school board, for new school; O. G. Round, architect. 202 Oppenheim building, St. Paul; check \$500, heating, plumbing and ventilating bids also received at same time and place; check \$300; see official advertisement in The Improvement Bulletin this week.

**Wis., Madison**—Bids will be received until March 1, for Fair Oaks school, (revised plans); O. S. Norsman, city clerk.

**\*Wis., Wausaukee**—Bids will be received by secretary of board of education until March 10, for erection of high school, cost, \$35,000, brick, 80x100. 2-story and basement.

#### CONTRACTS AWARDED.

**Minn., Morgan**—Contract awarded to F. H. Nuebel of Mankato for metal work on new high school, at \$1,172.

**Neb., Holdrege**—Contract awarded to Messrs. Johnson, Borchert, and P. N. Kjar, for new school building; cost \$20,000, at Cambell, Neb.

**\*N. D., Wales**—Contract awarded to John Robertson, Hannah, N. D., for school in section 25, at \$1,740; other bids were: E. W. Finck, Langdon, N. D., \$1,828; D. O. Danielson, Vang, N. D., \$2,140.

**\*S. D., Brookings**—Contract awarded to Wold Construction Co. for \$85,000 building for Yankton college.

**S. D., Letcher**—Contract awarded to the Gray Construction Co., Watertown, S. D., for high and grade school, cost \$25,000; A. A. Shoultz, architect, Watertown, W. D. Todd, secretary, Letcher.

**S. D., Sioux Falls**—Contract awarded the Sioux Falls Construction Co. for new school on east side at \$57,890.

**\*Wis., Prairie du Chien**—General contract awarded to Anton Zwack, of Dubuque, Iowa, for fireproof building, Champion college, at \$85,000.

#### CHURCHES

**Iowa, Ashton**—The German Presbyterians will erect a new church.

**Iowa, Cedar Falls**—The old church of the German Evangelical Association, is being razed and new building will be erected at once; Fred Huffman in charge of work.

**Iowa, Dubuque**—First Baptist congregation have secured a site and will erect a modern house of worship.

**Iowa, Elgin**—A new modern church is being planned here, over \$6,000 being subscribed.

**Iowa, Jefferson**—The Disciples church are planning to replace their present building, with a modern edifice; cost \$15,000.

**Iowa, Manson**—Members of the Grace M. E. church are planning to build addition to their church to cost about \$10,000.

**\*Minn., Easton**—Plans by W. F. Keif, architect, American National Bank building, St. Paul, for new church here; bids received but contract not awarded; owner builds, separate contracts.

**Minn., Zumbrota**—A new church will be erected by members of the Stordal congregation at Roscoe Center; brick and tile; basement completed.

**\*Neb., Norfolk**—Father Moriarity has plans prepared for remodeling and completion of Sacred Heart church; bids called for soon.

**\*Neb., Oakland**—Free Church plans to build.

**Neb., Snyder**—St. Peter's congregation have voted to build a new edifice.

**N. D., Cando**—Plans are being discussed for enlargement of the present Congregational church building.

**Wis., Chippewa Falls**—A new brick convent will be erected by the Notre Dame sisters, this spring; cost about \$10,000; 2-story.

**Wis., Colby**—M. E. congregation are planning to erect new edifice this year; plans will be drawn by Gust Krasin; cost \$4,000; brick, 32x50, seat 200.

**Wis., Kaukauna**—Trinity Evangelical Lutheran congregation will erect a modern edifice, cost \$25,000; Edward Griebbe, chairman of committee to secure plans and estimates.

**Wis., Milwaukee**—Rev. Geo. F. Schroeder, pastor of St. Paul's mission house, announces that it will build guild hall, 76½x30, modern.

**Wis., Springfield**—A new church building will be erected at Hersey in the spring.

#### BIDS WANTED.

**Iowa, Mt. Ayr**—Bids received until March 9, 2 p. m., for a church building for the First Baptist congregation; plans with Hon. J. A. Stephenson, secretary, Mt. Ayr., Geo. D. Moffat, chairman, building committee.

**Neb., Chapell**—Bids will be taken March 1, for a church for the M. E. congregation; plans by M. N. Bair, architect, Hastings, Neb.; cost \$10,000; 50x68; bids taken by H. J. Babcock; common, pressed and hollow brick, steam heat, pump water, electric lights, composition roof, patent plaster, board, metal lath, Lowe Brothers' paint, P. & L. varnish, figured and leaded glass, brick floors.

**Wis., Black Creek**—Bids received until 2 p. m., March 3, for church according to plans and specifications on file with Rev. Hertsfelt; check 5 per cent; J. A. Koehler, clerk.

#### ELECTRICAL

**Iowa, Buffalo**—\$10,000 bonds were voted for electric light system, carried.

**Iowa, Clarinda**—City council has passed resolution authorizing the signing of a 10-years' contract for a municipal lighting, with the Lee Light & Power Co.

**Iowa, Grundy Center**—Grundy Center Electric Co. plans to extend its transmission line to Holland and Wellsburg; plans provide for outdoor substations in both places; equipment for the Wellsburg station will consist of two 15 k. v. a. 6,600/220-110-volt transformers; Holland, two 10 k. v. a. 6,600/220/110-volt transformers; Grundy Center, two 20 k. v. a. step-up transformers, 110/220/110-volt, 10 miles of 3-wire, No. 6, semi-hard drawn copper wire, required for the transmission line, arrangements not completed yet, for project; J. B. Calderwood, owner and manager.

**Minn., Aurora**—Proposition is being discussed for erection of a light power building.

**Minn., Bear River**—Following officers were elected for the Bear Valley Telephone Co., R. W. Block, president, J. A. Westling, vice president, A. C. Brude, secretary and treasurer; bids opened for new poles.

**Minn., Eveleth**—The city council has let a 10-year contract to the Home Electric & Heating Co., to furnish current for are lighting and to illuminate city buildings.

**Minn., Frazee**—Luce Electric Railroad Co. may run its line through county to Hubbard and Park Rapids.

**Minn., Hibbing**—Excavation nearly completed for the new telephone exchange building.

**Minn., Hibbing**—Members of the water and light committee are considering purchase of an engine to furnish power for the city.

**Minn., Karlstad**—An electric light plant will be installed here.

**Minn., Little Falls**—Required amount of funds \$6,000 has been raised for electric line to be built through village of Buckman, by the Electric Short Line Railway Co.

**Minn., Montevideo**—The Montevideo Electric Light & Power Co., has sold its plant to Campbell Co. of Huron, S. D., at \$180,000; possession to be taken about March 1.

**Mont., Whitefish**—Concrete foundation is being laid at roundhouse for a dynamo and engine from which power will be given to light G. N. depot, offices and roundhouse here, 30 h. p. engine; yards may be electrically lighted.

**S. D., Bonesteel**—Negotiations are being made for an electric light plant.

**S. D., Hartford**—Arrangements are being made for extension of the electric light and power plant wires, for electrifying Montrose.

**S. D., Madison**—City Engineer Trimmer has been instructed to prepare plans for new 400 h. p. engine and additional dynamo at the power plant.

**S. D., Spearfish**—Power Co. has purchased the electric light system here and will operate.

**Wis., Fort Madison**—Interurban railway may be built between here and Nauvoo during 1915; C. H. Petisch of New York and H. S. Payne, a local man, interested.

**Wis., Grantsburg**—Village is considering the construction of a dam cost \$20,000 on Wood river for water power for the electric light and power plant.

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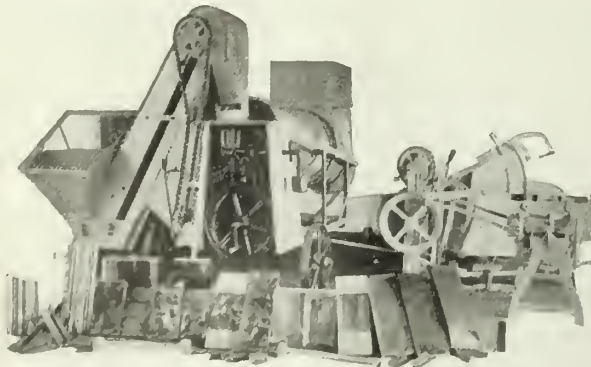
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**Wis., Markesan**—Markesan Electric Co., incorporated, capital \$15,000.

**Wis., Reeve**—The Electric Light Co. will run wire from Clear Lake to Prairie Farm in the spring.

**Wis., Mellen**—The Mellen Water & Light Co. will change its system from 132 cycles to 60 cycles, in about a month; A. W. Pribnow, president and manager.

**Wis., Westby**—The light commission plans changing the system of the municipal electric light plant from direct current to alternating current; Earl D. Jackson, superintendent.

**Wis., Wyocena**—Board of supervisors have appropriated \$15,000 for construction and equipment of a central heat, light, and power plant, for group of country buildings, here.

#### BIDS WANTED.

**Iowa, Griswold**—Bids received until March 5, for operating the Grant Mutual Telephone Switch Board, for year, beginning April 1; James A. Lary.

**Minn., Le Sueur**—Bids received until 8 p. m., March 5, for one 150 k. v. w., 60 cycle, r. p. m. generator, etc., for the water and light department; official advertisement in The Improvement Bulletin this week.

#### CONTRACTS AWARDED.

**Iowa, Conrad**—Contract awarded to the Iowa River Light & Power Co., of Eldora, for lighting the streets.

**Minn., Mesaba**—Contract awarded to John R. Tomes, to furnish electrical fixtures for the new school building.

### ELEVATORS

**Iowa, Sioux City**—The Mystic Milling Co. will erect a grain terminal elevator, concrete; cost about \$150,000; H. J. Hut-ton, president.

**Iowa, Tama**—The Farmers' Co-operative Elevator Co. will rebuild elevator recently burned; H. B. Cory, manager.

**N. D., Alsen**—The Northland Elevator burned, in Cavalier county.

**N. D., Alsen**—The Northland Elevator burned.

**Wis., Ridgeland**—The potato and grain warehouse of W. F. Grover burned; loss about \$3,000.

#### CONTRACTS AWARDED.

**Iowa, Langdon**—Contract has been let for new elevator, work to begin about March 1.

### MILLS AND FACTORIES

**Iowa, Bloomfield**—John E. Bezzenberger and Chas. Hopkins will erect a pop factory soon.

**Iowa, Davenport**—An oil plant may be built here by the Red Seal Oil Co., of Chicago, and Kansas City; Guy Webster, representative of company.

**Iowa, Davenport**—The Bettendorf Co. will erect an addition for manufacture of complete box cars.

**Iowa, Des Moines**—Building and entire plant of the Register and Leader and Des Moines Tribune, burned; loss \$20,000; partly insured.

**Iowa, Jefferson**—Plant of the Iowa Stock Remedy Co., burned; loss \$25,000; insured at \$10,000; company will rebuild at once.

**Iowa, Newton**—The American Gas Construction Co. of Newton, Iowa, has petitioned common council at Marshfield, Wis., for franchise for a gas plant.

**Minn., Belle Plaine**—Plans are being made for erection of a large corn storehouse here.

**Minn., Bird Island**—A new creamery will be erected here; funds being raised, to cost about \$4,000.

**Minn., Elbow Lake**—A creamery, 1-story, brick, will be erected; bids received until 2 p. m., March 15; O. H. Fast, architect, Elbow Lake, official advertisement in The Improvement Bulletin this week.

**Minn., Mankato**—A company has been incorporated here; capital \$50,000; will erect tile factory.

**Minn., Sauk Center**—G. E. Kennedy of Valley City, N. D., will erect a planing mill, 26x40, concrete, here.

**Minn., St. Cloud**—Flour mills of the George Tilton Flour Co., operated by the Great Northern Flour Mills Co., burned; loss about \$125,000, insured \$10,000; C. E. Roseth, of Wisconsin, J. M. Quilly and W. A. Thomas of Minneapolis, representatives.

**Minn., Stillwater**—The Stillwater Farm Co. has purchased site and will erect corn canning factory.

**Minn., Waterville**—Funds are being raised for a new brick creamery building.

**Mont., Great Falls**—Fire destroyed the new Oster-Potter

flour mill, valued at over \$2,000; Mr. Oster and Mr. Potter, owners.

**Mont., Maxville**—The Montana Phosphate Co. will erect mill here; capital \$5,000,000; John D. Field, manager.

**Mont., Harrison**—A new flour mill will be erected here; A. A. Bridges, interested.

**Neb., Ralston**—Roy and Clyde Baker, proprietors of the Omaha Serum Co., South Omaha, will erect a modern plant here; plans completed, contracts let, work started.

**Wis., Luck**—Proposition is being discussed for erection of a cheese factory.

**Wis., Madison**—Wholesale plant of the Gould, Wells & Blackburn Co., burned; loss about \$100,000.

**Wis., Merrill**—The Hackbart mill burned; partly insured.

**Wis., Marshfield**—C. E. Blodgett will soon build a cold storage plant, brick.

**Wis., Milwaukee**—H. W. Bueming, 521 Jackson st., architect, has awarded following contracts on new factory and warehouse, for C. B. Leiderdorf Tobacco Co.; concrete work, Dahlman Construction Co., carpenter, F. Luenzmann Construction Co.

**Wis., Milwaukee**—B. J. Johnson Soap Co. announces it will erect a 6-story factory and warehouse building, 123x130, brick, steel and concrete; W. B. Johnson, secretary.

**Wis., Milwaukee**—Herman J. Esser, architect, Camp building, awarded the following contracts for new factory and warehouse, cost \$50,000; general contract to Wisconsin Cement Construction Co., elevators, S. Heller Elevator Co., Milwaukee.

**Wis., Milwaukee**—Bids in Feb. 22, for a \$75,000 factory for Lorenz Bros. Marconi Co., solid brick and mill construction, 90x132, 3-story and basement, freight elevators.

**Wis., Milwaukee**—Klug & Smith, consulting, engineers, 40 W. Mack building, general contractors on new transformer shop for the West Allis-Chalmers Manufacturing Co., at West Allis, have sub-let contracts as follows: mason, R. L. Reisinger; carpenter, Madsen, Christensen & Ingbertson, Milwaukee.

**Wis., Milwaukee**—Federal Rubber Manufacturing Co., E. Cudahy, Milwaukee county, has following buildings, in prospect, for 1915: garage and machine shop, 2-story, fireproof, for officers' and employers' cars, new administration building, remodel present office building, into a factory, new factory building, 6-story, fireproof; plans will mature in March; B. C. Dowse, president.

**Wis., Shawano**—W. J. Shumacher and W. F. Tobin will erect paper mill here.

**Wyo., Worland**—Bids are being received by board of directors of the Emmers' Products Co., for breakfast food factory; work to commence soon as contract is let.

### RESIDENCES

**Iowa, Clinton**—Plans prepared by John Morrell & Son, architects, 410 Howes block, Clinton, for a 2-story apartment house for John Morrell & Son.; contract awarded to J. J. Tompkins, Clinton; stucco and plaster, 29x40, steam heat, electric lights, wood roof, patent plaster.

**Iowa, Osage**—A. Cordes will erect a modern residence in the spring.

**Minn., Baudette**—F. E. Johnson will erect a residence in the spring; also T. J. Williams and S. M. Koefod.

**Minn., Ferns Falls**—Plans prepared by Glenn L. Saxton, architect, Minneapolis, for a 3-story, frame residence, for D. M. Brown, 30x32, cost \$6,000, at Cort st. and Vasa av., wood stucco finish, bids being taken by owner, close in two weeks; hot water heat, city water, electric lights, patent plaster, S. W. paint, S. W. varnish, tile floors, birch, oak floors, oak finish.

**Minn., Stewartville**—John Rubido will erect a modern dwelling; also J. D. Day plans to erect modern residence.

**Minn., St. Charles**—David Goodrich will erect modern residence in spring.

**Neb., Gering**—D. L. Newbaker will erect a modern residence; Geo. Ehrman is planning erection of a modern bungalow.

**Neb., Glenville**—Verne Jennings will erect modern residence, spring work.

**Neb., Grafton**—Wm. Karch plans to erect a modern residence in the spring.

**Neb., Hebron**—B. F. Willis will erect modern residence in the spring.

**Neb., Lyons**—F. W. Lopnow will build a modern residence, cost about \$3,000, in the spring.

**Neb., North Bend**—A modern residence will be built by Thos. H. Fowler.



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**Neb., St. Paul**—A. H. Reines has contract to build modern residence for Ed. Calvin, 28x36, 2-story.

**Neb., St. Paul**—Plans are being drawn for modern residence for C. E. Leftwich; also for W. S. Paul, bungalow.

**Neb., Syracuse**—A. C. Hayes will erect a modern bungalow, 26x25, foundation in.

**N. D., Mandan**—An Episcopal rectory will be erected here this spring, cost between \$4,000 and \$5,000; modern; plans are being prepared.

**Wis., Grand Rapids**—Plans being prepared by A. F. Billmeyer for a residence for R. R. Rogers.

**Wis., Milwaukee**—Bids received March 1, for a \$60,000 apartment house for Paul Gilmore, at Van Buren and Mason sts., brick and concrete, 4-story and basement, 52x54, 24-apartments; Alex C. Eschweiler, architect, Goldsmith building.

**Wis., Rhinelander**—Fred Perron will erect a modern residence.

## BUSINESS BUILDINGS

**Iowa, Armstrong**—Bids wanted for a store building for plans and specifications; address J. V. Burkhead, architect, Armstrong, Iowa.

**Iowa, Boone**—S. L. Moore, president of the First National Bank which burned recently, has completed plans for erection of a new modern building; cost \$150,000.

**Iowa, Council Bluffs**—Permit taken out for the new Simon building, J. Chris Jensen, architect, also contractors; 2 story, 100x110, full basement; a warehouse will also be erected, 50x70; 2-story, brick, contract not let yet.

**Iowa, Denison**—Plans by Edgar L. Barber, architect, Denison, Iowa, for a telephone building, for the Crawford County Telephone Co., 1-story, 37x52, brick, cost \$5,606; contract awarded to J. F. Kobler, Carroll, Iowa; brick and concrete, foundation, press brick, blue Bedford stone, tar and gravel roof, tile cornice, plate and d. s. glass, hard plaster, hot water heating, maple floors, r. o. oak finish, hollow tile, iron beams, stairs, plumbing, skylights, heating and plumbing, to be let late.

**Minn. Argyle**—O. R. Amoth will make improvements and remodel his restaurant building.

**Minn., Bowls**—Fire destroyed the Hoffman's general store, Armstrong's implement store, Klisch's saloon, damaged the Grand hotel; loss about \$25,000.

**Minn., Cedar Spur**—Store and postoffice here burned; loss \$5,000, partly insured; will rebuild soon.

**Minn., Duluth**—A. Henson & Co., hardware merchants, will erect a 1-story brick; plans by Vernon J. Price, architect, Duluth.

**Minn., East Grand Forks**—Office and storage building of the Annheuser-Busch Brewing Co., burned; loss about \$15,000.

**Minn., Gardner**—Geo. H. Gardner will erect a 4-story and basement reinforced concrete business block; plans are in progress by Architects Vernon J. Price & Co.

**Minn., Grasston**—Following business buildings burned: C. E. Platt, newspaper, loss \$1,400; insured at \$750; Eloy P. Nygren, drug store, loss \$1,300, insured, \$1,000; pool hall building, \$1,000, insured, \$750; A. A. Lofte, drugs, partial loss; L. Pfifer, barber shop.

**Minn., Grey Eagle**—Jacob Callahan plans erection of a brick business building.

**Minn., Hayfield**—C. A. Watkins of Nichols, Iowa, has purchased site and will erect a modern business block, soon after March 1.

**Minn., Lakefield**—J. T. Powell will erect a building, 25x69, 2-story and basement.

**Minn., Lakefield**—Mrs. Geo. Wholrabe is figuring with Contractor A. J. Will for erection of a 2-story business building.

**Mo., St. Joseph**—Plans prepared by Truck & Gordon, architects, St. Joseph, for a building to be used as a carpet cleaning for the Stubner Cleaning & Mercantile Co.; brick, 2-story, 40x140; cost \$11,000; contract awarded to James E. Gates, brick, and reinforced concrete foundation, common and facing brick, Bedford stone, Barrett built-up roof, brick cornice, o. s. and wire glass, no plastering, steam heat, concrete and wood floors, cementing, freight elevators, fire brick, iron beams, plumbing, skylights.

**Mont., Forest Grove**—Fire destroyed the Emerson & Adams store, Lemall saloon, and a restaurant; loss about \$10,000.

**Mont., Great Falls**—Rooms will be remodeled in the McKnight block for the Kenyon & Wheeler drug firm; Patterson & Schwerdt, contractors.

**Mont., Great Falls**—Mutual Oil Co. will erect an iron-clad warehouse, 48x60; cost \$2,000; permit issued.

**Mont., Harrison**—Plans have been completed for a new bank building, 50x100; concrete blocks; by Architect P. P. Vreeland, of Bozeman.

**Mont., Lavinia**—Phillips & Krueger Co. will erect an implement warehouse and automobile garage.

**Mont., Malta**—Another brick business block will be erected by one of the leading firms here.

**Mont., Winifred**—Mrs. Anna Strickland will erect a modern business building in the spring.

**Neb., Brunswick**—First National Bank will erect a modern bank building.

**Neb., Central City**—Dr. H. E. Glatfelter will erect a modern 2-story business building.

**Neb., Gordon**—Mr. Hutt of the Hutt store will erect a modern brick 2-story store building in the spring.

**Neb., Holbrook**—Sherm Ball will build a modern cement block building, 25x80.

**Neb., Kearney**—Plans will be rushed by Architect Bert Lake, for proposed business block, for F. G. Keens.

**Neb., Lincoln**—Fire destroyed the Lincoln Transfer & Storage Co. building; loss \$40,000.

**Neb., Newman Grove**—R. T. Cain will erect a modern brick bakery building.

**Neb., Newman Grove**—E. H. Gerhart is planning to erect a half dozen tenant houses in Cain's addition this year.

**Neb., Omaha**—Fire damaged the board of trade building; loss \$100,000.

**Neb., Omaha**—Plans prepared by R. E. Everett, architect, 607 Brandeis building, Omaha, for a store building, for Robert Copely, 911 N. 33d st., 1-story, 40x60; cost \$60,000; owner takes bids.

**Neb., Schribner**—Henry Dierks will erect a modern bungalow.

**Neb., Sidney**—Daniel McAleese may build a modern store building; brick, with Bedford stone trim.

**Neb., Valentine**—County Attorney Ruby will erect a modern business building soon.

**N. D., Bonetral**—Mercantile store of Borstad & Wilson burned, loss between \$10,000 and \$12,000, partly insured; steps will be taken at once to rebuild.

**N. D., Wahpeton**—Store of O. A. Kvenmoan & Co. at Childs burned, heavy loss.

**S. D., Platte**—Fire destroyed the Cool furniture store; loss about \$20,000; insured at \$5,000.

**S. D., Vayland**—Store, hotel and bank burned.

**Wis., Downing**—Bank of Downing will build new modern building; cost about \$10,000; plans in preparations.

**Wis., Grantsburg**—Plans are underway for two business buildings, for the two banks; also for the Journal & Sentinel Publishing Co.; brick.

**Wis., Green Bay**—Dr. R. C. Buchanan will erect a modern 4-story brick building; cost \$100,000.

**Wis., Ladysmith**—A. H. McCormick from Seattle, Wash., will erect a grocery and wholesale flour store; cost \$25,000.

**Wis., Madison**—Wholesale grocery plant of the Gould, Wells & Blackburn Co., burned; loss \$100,000.

**Wis., Marshfield**—H. T. Liebert, architect, Marathon County Bank building, has been selected as architect to draw plans for the large wholesale grocery building, for C. E. Blodgett; 4-story, 50x160; cost \$50,000; Mr. Liebert also has contract to draw plans for a modern business building, for Peter Rouman at Rhinelander.

**Wis., Milwaukee**—A 3-story store and office building will be erected for Herbst & Hufschmidt of city; cost \$20,000; 60x75, contain four stores and 12 offices; solid brick.

**Wis., Oshkosh**—Low bids received on work on the new store of Wm. J. Glatz were as follows: mason work, Ganther & Kroyer; J. Rasmussen & Son, or concrete work; Wm. Porath on carpenter work; complete will probably be awarded to same; brick, 3-story, modern; cost about \$14,000.

**Wis., Portage**—The J. F. Walter brick block burned.

**Wis., Stratford**—E. P. Rifeman will erect a modern business block, work will not begin until spring of 1916.

**Wis., Weyauwega**—Emil Thews has purchased site and will erect a blacksmith shop.

### CONTRACTS AWARDED.

**Minn., Meadowlands**—Contract let and work will begin at once for new bank.

**Minn., Minnesota**—A. Moorman & Co. were awarded the contract for the construction and complete equipment of the building for the First National Bank, 25x60, of wire cut brick, with Kasota stone trim, 1-story; interior finish of quarter sawed oak, including bank fixtures; work to include ornamental plaster, terrazzo floors, decorations, vault doors, etc.

**Minn., Murdock**—Erickson & Backlund have purchased site and will erect a store building.

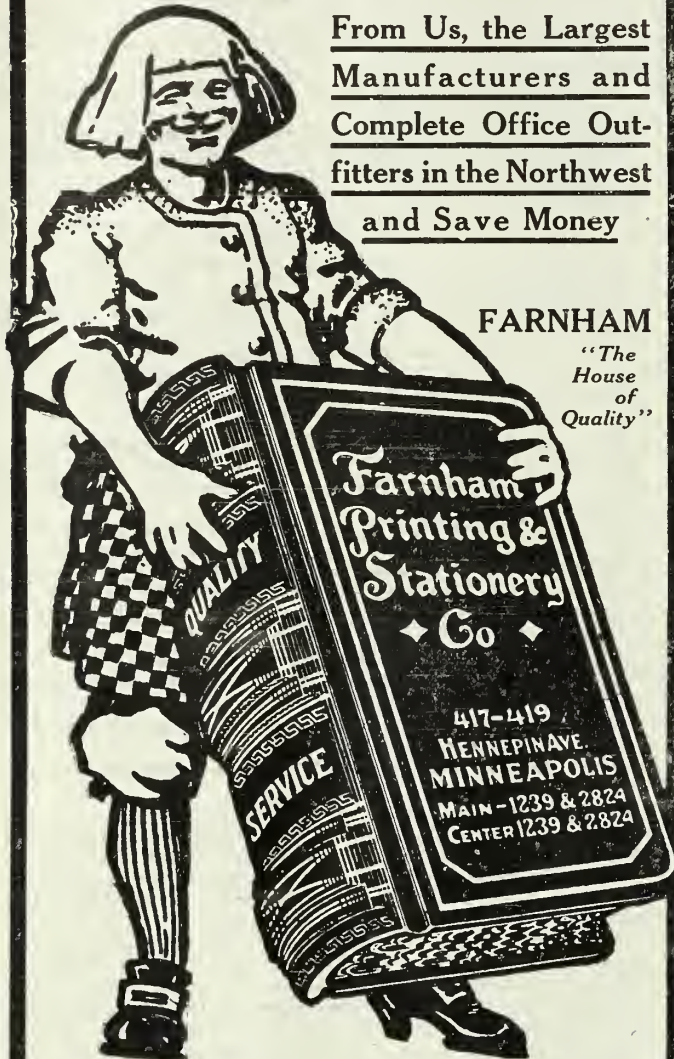


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The Improvement Bulletin

Road work for 1915 in 32 Wisconsin counties: Ashland, 15 miles earth, 15 miles gravel; Barron, 22 miles earth; Buffalo, 6 1/4 miles earth, 1 1/2 miles macadam, 1 mile concrete; Burnett, 15 miles earth; Crawford, ?; Dane, 40 miles earth, 6 miles gravel, 28 miles macadam, 2 miles concrete; Dodge, 5 miles earth, 15 miles gravel, 20 miles macadam, 1 mile concrete; Douglas, 40 miles earth, 2 miles gravel, 2 miles macadam; Dunn, 6 miles earth, 7 miles gravel; Grant, 8 miles earth, 6 miles gravel, 10 miles macadam; Green, 5 miles earth, 10 miles gravel, 1/2 mile concrete; Green Lake, 3/4 mile gravel, 6 miles concrete; Iron, earth, ?; Jefferson, 3 miles macadam, 2 miles concrete; Juneau, 5 miles earth, 10 miles macadam; Kewaunee, 8 miles gravel, 1/2 mile concrete; La-Crosse, 8 miles earth, 30 miles macadam; Milwaukee, 5 miles gravel, 37 miles concrete, 3 miles asphalt; Oconto, 16 miles earth, 14 miles gravel, 8 miles macadam; Oneida, 33 miles earth, 2 miles gravel; Price, 40 miles earth; Richland, 10 miles macadam; Rock, 20 miles gravel, 20 miles macadam, 1/2 mile concrete; Sauk, 4 miles gravel, 20 miles macadam, 1 mile concrete; Sawyer, 20 miles earth; Shawano, 8 miles earth, 3 1/2 miles gravel, 3 1/2 miles macadam; Taylor, 20 miles earth, 2 miles gravel; Vernon, 12 miles earth, 3 miles macadam; Walworth, 5 3/4 miles gravel, 6 1/2 miles macadam, 1 1/2 miles concrete, 1/2 mile brick; Washington, 8 miles gravel.

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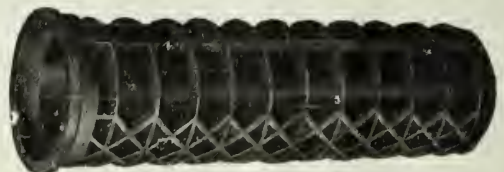
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**Minn., Windom**—Contract awarded to J. B. Nelson Construction Co., Mankato, for the general work on the store and hall for the Windom lodge 108; heating, plumbing and electric lighting not let.

**Wis., Hudson**—Contract awarded to Kircher Brothers of Hudson, Wis., at \$1,544 for addition to sheriff's residence.

**Wis., Milwaukee**—The M. & A. Seeboth Co., will erect a building, cost \$30,000, contracts have been awarded by Architect Herman J. Esser, to be completed by June 1, 50x100, reinforced concrete.

**Wis., Milwaukee**—Contract awarded to S. Heller Elevator Co., for installing all freight and passenger elevators in the \$500,000 addition to the Gimbel Brothers' store.



## MISCELLANEOUS



**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 8, for one runabout automobile, 4 cylinder, 20 h. p., electric lights, electric starter, demountable rims, with extra wheel and tire, complete, etc.; bond or check for 10 per cent.

**Mont., Lewistown**—Site surveyed at Big Spring for state fish hatchery.

**S. D., Watertown**—Bids in 2 p. m., March 1, on dam, sand fill, across Lake Kampeska outlet; J. A. Paterson, chairman, county board.

**Wis., Marinette**—A light house dwelling will be built by the U. S. for Chambers Island light; Edward Ledwell, assistant keeper.

## FIRE APPARATUS

**Minn., Bemidji**—City council will buy a motor fire truck; cost \$5,300.

**Minn., High Landing**—A. Tharaldson was elected chief of the newly organized fire department, C. Shosten, assistant chief, will purchase a fire bell and chemical engine.

**Minn., New Pierz**—Village voted to incorporate and will be known as Granville.

**Minn., North Branch**—Contract awarded to the W. S. Nott Co., to supply village with one "Victor" 40-gallon chemical fire engine with complete standard equipment, f. o. b. at North Branch, for \$275.

**Minn., Redwood Falls**—Fire department will purchase more hose and chemical supplies for the department; Aldermen Whitet and Johnson were appointed as committee.

**Minn., Sunbeam**—A fire department has been organized at Goodridge.

**Mont., Hysham**—Village will vote soon to incorporate.

**Wis., Fox Lake**—Motion made that the village president and chief of the fire department be instructed to purchase a hook and ladder truck; Wm. F. O'Connell, village clerk.

**Wis., Madison**—City has contracted for a motor tractor, to cost \$4,685.

**Wis., Racine**—Contract awarded to the L. P. C. Motor Co. for furnishing car for the fire chief, at \$750.



## RAILROADS



**Iowa, Eagle Grove**—Blue prints received for \$100,000 improvements to round house call for addition of brick and cement containing 13 90-foot stalls, and modern machine shop. It is probable that this addition will be erected to the south of the present building, which will complete the circle. Then if present plans are carried out, the old building will be torn down in 1916 and rebuilt, in keeping with the new part. The new addition to be erected this summer, according to present plans will contain all the modern improvements known in round house building.

**Iowa, Storm Lake**—Scott Bradford has received word from the general manager of Illinois Central that work will be started on the new depot here as soon as the frost is out of the ground in the spring.

**N. D., Drayton**—Rails to build line from East Grand Forks to this point have been unloaded by the N. P.; 26 miles.

**Wis., Racine**—Oakwoods station, C. M. & St. P., burned.

**Minn., Duluth**—N. P. expected to let contract soon for Smithville subway; \$20,000.

**Wis., Alma**—The Montana Waumandee Railway Co., Alma, Wis., is taking bids for furnishing, f. o. b., right-of-way, 25,000 steam railroad ties, standard gauge; F. D. Brandenberg, general manager.

## ≡ DRAINAGE AND IRRIGATION

**Iowa, Bedford**—Board of supervisors took action on a report of the county engineer regarding the Platte river drainage district which contemplates the straightening of the river from the Taylor county line north. They have changed the route from the original survey; the ditch will be 18.4 miles in length and will have a fall of 3.7 feet per mile.

**Iowa, Estherville**—All bids rejected on section 2, cleaning and repairing ditch 26; new letting Mar. 10; contract let on section 1, to Lennon & Clancy, Fonda, at 29¾c a yard.

**Iowa, Jefferson**—The board of supervisors established drainage district No. 100, which includes the 600 acres belonging to the state of Iowa and known as Goose Lake; Engineer Nelson is in charge.

**Iowa, Marengo**—Bids in Feb. 24, on bridges and culverts in Iowa county for 1915.

**Iowa, Sac City**—An engineer has just made a report to the supervisors of Greene county on a drainage proposition including portions of Scranton, Jackson, Greenbrier and Wilcox townships; it will cost \$133,000.

**Iowa, Storm Lake**—A. H. Cunningham has been appointed the engineer for the drainage district petitioned for by A. M. Erickson and others, the one petitioned for by H. L. Anderson and others and meetings will be held on April 6th to consider his reports on the same. He has also been appointed engineer for the drainage district petitioned for by Henry Hartje, Sr., and others, petitioned for by Christian Ripke and others and by Len H. Lamar and others and meetings will be held on April 7 to consider his reports on the same; W. W. Bennett, county Auditor.

**Minn., Alexandria**—Hearing March 15 on county ditch 17; C. H. Jensen, auditor.

**Minn., Breckenridge**—County ditch 15, jobs were not let, will be readvertised.

**Minn., Wheaton**—Hearing Feb. 23, on petition for county ditch 10; same date for hearing county ditch 20; also same date for hearing county ditch 19.

**Mont., Eureka**—As soon as weather will permit a final, complete survey of the Glen Lake irrigation project will be made. After this has been done the district will advertise for bids for the construction work, with the expectations of interesting the contractor to the extent of taking a share of the bonds in part payment of the work. Considerable permanent work in the shape of a concrete headgate and about a mile of ditch for the purpose of diverting the water from Therriault creek to Glen lake, was completed by the district last fall; consummation of a sale of the bonds expected at an early date.

**Neb., Tekamah**—Meeting March 2, to consider plan submitted by Towl Engineering Co., Omaha, for cleaning ditches in Burt-Washington district.

**Neb., Tecumseh**—It is expected that work will soon begin on the drainage ditch to be constructed along the Little Nemaha river in the northeastern part of this county and in Otoe county. The dredging contractors are getting things in condition so they will lose no time when the weather becomes favorable for the work.

**S. D., Rapid City**—A drainage project is about to be launched in the Spring Creek valley to be known as the Spring Creek Valley Irrigation Co.; F. C. Magruder, S. C. Berry of Belle Fourche, A. C. Overpeck of this city and T. S. Overpeck of Belle Fourche. It is located about 12 miles south of Rapid City with storage dam on property of John Hart and the intention is to construct a reservoir overflowing 430 acres.

**Wyo., Basin**—Judge Winter decided in favor of commissioners, in the case of Germania Bench canal, drainage district organization.

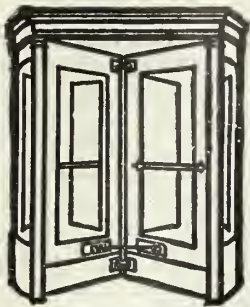
### BIDS WANTED.

**Iowa, Garner**—Bids in March 2, 2 p. m., on drainage district 26, Hancock county; check for 10 per cent; deepening, cleaning, etc.; E. P. Hanson, auditor.

**Iowa, Northwood**—Bids received till 10 a. m., March 4 by County Auditor C. N. Urdahl, for labor and material necessary for the construction of drains and ditches in drainage district No. 19 of said county. The improvement will require 2,000 lineal feet of earth excavation, estimated at 3,752 cubic yards, 1,050 feet of 6-inch tile, 10,420 feet of 8-inch, 12,188 feet of 10-inch, 9,126 feet of 12-inch, 5,267 feet of 14-inch, 7,342 feet of 16-inch, 2,850 feet of 18-inch, 3,550 feet of 22-inch and 7,100 feet of 24-inch tile. Plans and specifications, describing the work, may be seen at the office of the county auditor. Information as to length and location of each line, size of tile, depth of cut, distance from railroads, etc., will be mailed upon request. All bids must be on forms approved by the board of supervisors, and the items "open ditch," "headwall,"



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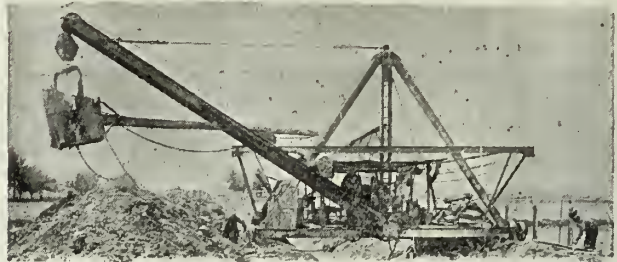
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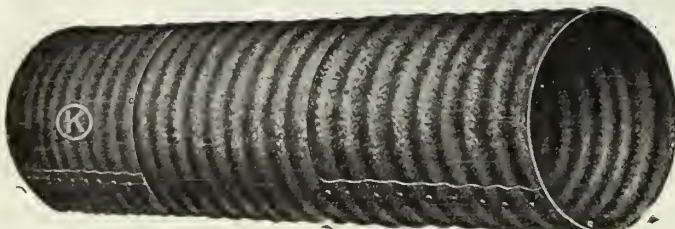
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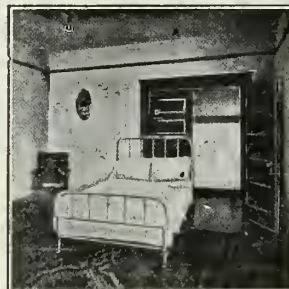
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"tile," "haul" and "lay and fill" must be separate, and bids will be received for any one or more of said items.

**Minn., Bemidji**—Bids received until 10 a. m., March 15, for installing culverts in judicial ditch 24; check 10 per cent; J. L. George, auditor; plans at Norquist Brothers' store, Roosevelt, or C. R. Middleton office, Baudette, Minn.

**Minn., Blue Earth**—Bids received until 11 a. m., March 19, for county ditch No. 27, Faribault county, or office of county auditor, Jesse L. Henning; check 10 per cent; official advertisement in The Improvement Bulletin this week.

**Minn., Elbow Lake**—Bids received till 1 p. m., Mar. 5, for digging and constructing county ditch 21; estimated main ditch \$9,397; branch 1, \$2,272; branch 2, \$1,409; branch 3, \$759; branch 4, \$1,271, three forks, \$800., \$720, \$182; check for 10 per cent; C. M. Nelson, auditor, Grant county.

**Minn., Owatonna**—Bids received until 2 p. m., March 13, for judicial ditch No. 2, Steele county, by County Auditor M. J. Parcher; check 10 per cent; official advertisement in The Improvement Bulletin this week.

**Wis., Grand Rapids**—B. M. Vaughan, attorney, will take bids until March 1, in behalf of the commissioners of Wood county drainage district, for 18 miles of ditches from 7-foot depth and 6-foot width to 7x10; check for \$1,000.

**Wis., Racine**—Sealed bids will be taken until March 6, by Thompson, Kearney & Myers, counsellors, Racine, for the Mount Pleasant and Somers drainage districts, consisting of 47,883 cubic yards excavation; 1,311 feet 18-inch, 800 feet 15-inch; 3,100 feet 14-inch; 12,908 feet 12-inch; 8,692 feet 10-inch; 3,059 feet 8-inch and 2,435 feet of 6-inch tile drain.

#### CONTRACTS AWARDED.

**Minn., Fairmont**—Contract let to Carl C. Knudson, Blue Earth, for judicial 8, at \$9,364.

**Minn., Jackson**—Final hearing March 15, on judicial 37.

**Minn., Ortonville**—Contract let to John Haney, Odessa, Minn., at \$11,000 for county ditch 41; M. E. Chamberlin, engineer.

### BRIDGES

**Iowa, Des Moines**—Plans to repair the old covered bridge at 1st av., are being made by the Des Moines City Railway Co., cost about \$1,000; Emil Schmidt, president.

**Iowa, Des Moines**—Fourteen bridges were destroyed by sudden thaw and floods; county will replace same.

**Iowa, Fairfield**—Hearing will be held March 1, 9 a. m., for 50 concrete, two I-beam and two steel bridges and culverts in Jefferson county; A. C. Turner, county auditor; further details and specifications on file at office of The Improvement Bulletin.

**Iowa, Fort Madison**—Following bids were received on materials for bridges, in Lee county: on lumber, J. C. Schee, Ft. Madison, white oak, 5 carloads, at \$29.50 per car; A. B. Garrott, Ft. Madison, 5 carloads of white oak, at \$30.00; Frank Sallen, Ft. Madison, native white oak, at \$35.00.

**Iowa, Ida Grove**—Bids advertised for Feb. 24, by Iowa Commission for bridges and culverts have been postponed indefinitely as the plans are not ready; bids for lumber, cement, etc., were received as per advertisement; Richard Varner, county auditor.

**Iowa, Iowa City**—High water and ice jams washed the 79-foot steel bridge spanning Clear creek away; board of supervisors will rebuild as soon as possible.

**Iowa, Lone Tree**—The \$10,000 steel bridge over the Iowa river between Louis and Johnson counties was washed away by high water; counties will rebuild.

**Minn., Duluth**—A bridge may be built across Pigeon river; state engineer is negotiating with Ontario engineering department in regard to international bridge.

**Minn., Moorhead**—County Auditor Truax will let contracts soon for several bridges over the new ditches in Wilkin counties.

**Minn., Pine City**—Sum of \$5,000 has been voted to aid village in building a bridge across the river on new state highway.

**Wis., Black River Falls**—A new concrete bridge will be erected near the Wyss farm.

**Wis., Eau Claire**—Plans are being prepared for a concrete arch bridge to replace lower race bridge in Shawtown.

#### BIDS WANTED.

**Iowa, Clarinda**—Bids received until 2:30 p. m., March 2, for construction and repair of bridges and culverts in Page county, during 1915; by C. W. Duke, county auditor; separate bids will be received on each kind of material; check 5 per cent; I. H. Taggart, county engineer, further information and specifications may be obtained at the Improvement Bulletin office.

**Iowa, Gowrie**—Bids received until 9 a. m., March 3, for corrugated culverts according to plans and specifications on file at office of state highway commission, car lots, f. o. b. Ft. Dodge or any station in Webster county; check for \$100; J. L. Hanrahan, county auditor.

**Iowa, Davenport**—Bids received until 2 p. m., March 2, for bridge material for bridges, according to plans at office of county auditor; J. M. Malloy, county engineer; check 5 per cent; cement, sheet metal pipe, reinforcing steel, corrugated pipe, lumber, etc.

**Minn., Buffalo**—Bids received until March 3, for corrugated metal culverts during 1915, prices, f. o. b., to all shipping points, John A. Berg, county auditor, Wright county.

**Minn., Delano**—Bids received until 1:30 p. m., March 3, for corrugated metal culverts of various sizes for 1915, delivered f. o. b.; John A. Berg, county auditor, Wright county.

**Minn., Minneapolis**—Bids will be received until 11 a. m., March 15, for removing old bridge No. 339, and erecting new bridge complete over county ditch No. 10, road No. 83; check 5 per cent; Al. P. Erickson, county auditor.

**Minn., Owatonna**—Bids received until 2 p. m., March 13, for construction of 30 corrugated culverts and construction of one bridge over ditch No. 2, Steel county; Geo. A. Ralph, engineer in charge, 410 Shubert building, St. Paul, Minn.; M. J. Parcher, county auditor; official advertisement in the Improvement Bulletin this week.

**Mont., Billings**—Board of county commissioners have authorized advertising of bids for Duck Creek and Pompeys Pillar bridges; cost \$32,000 and \$45,000; bids taken March 20.

**N. D., Ypsilanti**—Bids will be received until 2 p. m., April 6, for an 80-foot steel bridge with abutments over the James river; plans at county auditor's office; bids at same time and place for corrugated, galvanized and steel metal culverts, sizes 12 to 60 inches.

#### CONTRACTS AWARDED.

**Iowa, Waterloo**—Contract awarded to S. Bouton of Clarksville, for erection of 14 bridges in Blackhawk county at \$18,981.

**Minn., Bemidji**—Contract awarded to Lewis Grund for two bridges over ditch No. 13.

**Minn., Breckenridge**—Contract awarded to the Great Northern Bridge Co., Minneapolis, for the bridge over ditches Nos. 11 and 13, Wilkin county.

**Minn., Spooner**—Contract awarded to the Hennepin Bridge Co., Minneapolis, at \$4,777, for steel bridge across Main Rapid near junction of the north branch.

**Minn., Walker**—Contract awarded to the North Dakota Metal Culvert Co., Fargo, N. D., at \$1,025.

**Wis., Glenwood**—Contract awarded to John Hinman for concrete and steel bridges at Ellis and Stevens places at \$1,376.

### WATER WORKS

**Iowa, Linn Grove**—Bonds in sum of \$9,000 were voted for a municipal water works system.

**Minn., Duluth**—Erection of a 1,000,000-gallon reservoir between Anoka and Mankato sts. near Minneapolis av., is being planned; cost \$15,000; by the water and light company; D. A. Reed, manager.

**Minn., St. Paul**—Issue of \$280,000 10-year, 4½ per cent bonds for water works was authorized by city council.

**Wis., Two Rivers**—City council has authorized the water and light commission to secure plans for a lake intake for extension and enlarging the water supply.

#### BIDS WANTED.

**Minn., Duluth**—Bids received until Feb. 27, 11 a. m., for laying of gas and water mains in various streets; check 10 per cent, specification blanks at office of water and light department; C. S. Palmer, city clerk.

**Mont., Billings**—Bids will be received until March 17, for \$125,000 water bonds for improvements to city water works.

**Mont., Lewistown**—Bids will be received until March 29, for pipe with some fixtures to be delivered by May 1, for new water extensions, cost \$4,000.

**Neb., Cook**—Bids will be received until 2 p. m., March 8, for a complete water works system; check 5 per cent; plans with Alamo Engine & Supply Co., engineers, Omaha; L. H. Frank, village clerk.

#### CONTRACTS AWARDED.

**Iowa, Sioux City**—Contract awarded to the American Well Works Co. of Aurora, Ill., for new centrifugal pump at the Lowell pumping station; cost \$5,000.

**Minn., Albert Lea**—Contracts were awarded as follows on deepening city well and water works system: Swenson Ar-





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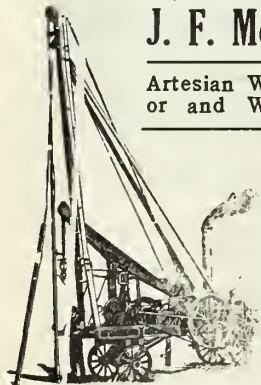
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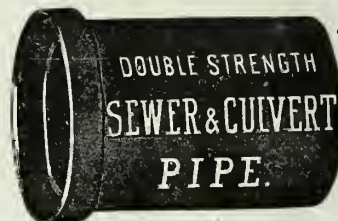
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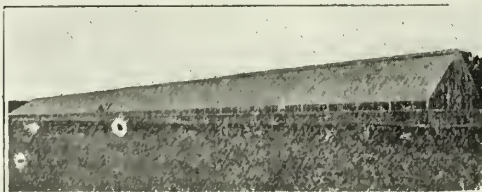
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tesian Well Co., at \$4.45, for drilling; casing \$1.25; J. F. McCarthy, Minneapolis, drilling, \$6.50; casing, \$1.50; Matt Holland, Cannon Falls, Minn., drilling, \$4.70, casing, \$1.30; contract awarded to Swenson Artesian Well Co., Minneapolis.

**Mont., Plentywood**—Contract awarded to A. L. Helmer for two wells for town.

**Neb., Talmage**—Contract awarded to Alamo Engine & Supply Co., Omaha, engineers, for motor and pump with which to pump water at power house, when the electric light plant is completed.

## SEWER WORK

**Iowa, Audubon**—Following is the list of bidders on sewer work here, bids having been opened Feb. 10: On outlet sewer and disposal plant: Ward & Weighton, \$10,992; C. R. Reynolds, \$11,689; Geo. M. King, \$12,304; A. W. Merrick, \$12,253; Fred Rowat, \$12,394; Offerman Construction Co., \$13,034; Christensen & Ashton, \$15,945. On lateral sewer system: Fred Rowat, \$25,220; Briggs & Corey, \$26,138; Elk Horn Construction Co., \$29,074; Alamo Engineering & Supply Co., \$29,296; Mooresey Construction Co., \$30,462; Decuboen Construction Co., \$30,387; Zitterall & Sullivan, \$31,018; Lana Construction Co., \$31,832.

**Iowa, Burlington**—Council has ordered that bids be taken at once on the Gnahn st. sewer; address city clerk.

**Iowa, Cedar Rapids**—Election probably soon be held to vote \$60,000 bonds to be used for extending Vinton ditch storm sewer and B av. W. storm sewer; address city clerk.

**Iowa, Council Bluffs**—Definite action probably taken soon on proposed sewer in district south of Broadway; address city clerk.

**Iowa, Decorah**—City will probably secure engineer at once to make preliminary plans and estimates for sewer system, including septic tank; probable cost, \$65,000; proposition probably submitted at spring election.

**Iowa, Garner**—Plans for sewers being made by Iowa Engineering Co., Clinton, Iowa.

**Iowa, Lake Mills**—Reported city is negotiating with M. Tschirgi, 314 Masonic Temple, Cedar Rapids, Iowa, engineers, for installation of sewer system; address city clerk.

**Iowa, Osage**—Commercial club is discussing sewer again; address city clerk.

**Iowa, Wall Lake**—Preliminary survey for proposed sewer system has been made by E. E. Carlson, engineer; cost, \$11,000.

**Iowa, Wall Lake**—Petitions liberally signed for a sewer system; address city clerk.

**Iowa, Woodbine**—Engineer secured to make preliminary survey for sewer system; address city clerk.

**Mich., Ishpeming**—The city is building a sewer 8,000 feet long, 8 to 12 feet deep, cost \$30,000; only the needy to be employed, standard wages, work in relays.

**Minn., Chisholm**—City council has authorized calling of bids for sewer pipe; C. M. Tramontin, village clerk.

**Minn., Crookston**—Council has accepted recommendation of sewer committee that a sewer be built in Hunter st. and also in Bertha st.; address city clerk.

**Minn., Duluth**—Sanitary sewer ordered in the alley between Leicester and Kenilworth avs., from Sussex to Livingston avs.; Roderick Muechison, commissioner.

**Minn., Hibbing**—Following were bids on sewer brick and manhole covers: J. V. Beran, 50,000 sand lime brick, at \$8.50 per M.; Standard Salt & Cement Co., 50,000 Kelly sand mould brick at \$10.30, 50,000 Kelly wire-cut at \$9.80; C. A. Remington, 50,000 sand mould brick at \$8.75, 50,000 sewer brick at \$10.30; Hibbing Lumber Co., 50,000 sand mould at \$10.30, 50,000 Kelly wire-cut at \$9.80, 50,000 common cand mould at \$8.80, 50,000 common wire cut at \$8.80, 50,000 sand lime at \$8.80, all bids f. o. b. Hibbing; National Iron Co., manhole covers at \$6.50 each; C. H. DeHaas, manhole covers at \$10; Virginia Foundry Co., manhole covers at \$7.66½; C. A. Remington, manhole covers at \$7.50, all f. o. b. Hibbing.

**Minn., St. Paul**—Legislature will be asked to appropriate \$70,000 for sewer system to drain state fair grounds.

**Mont., Anaconda**—Hearing March 3, on establishment of special improvement district No. 177, Nevada av., etc., costing \$120,000; address city clerk.

**Mont., Bozeman**—City clerk has been instructed to advertise for bids for a sanitary sewer on W. Story st. and 7th av., known as improvement district No. 84; address city clerk.

**Mont., Butte**—Arizona st. storm sewer will be rebuilt from Platinum st. to 2d st. playgrounds; estimated cost, \$25,000.

**Mont., Helena**—Plans and specifications prepared and will be acted upon soon for installation of sanitary sewers in

Grand av., etc.; estimated cost \$15,000; address city clerk.

**Mont., Lewistown**—Reported city engineer is preparing plans for installation of a lateral sewer system to cover about 12 blocks, and to be ready for bids about April 1; address city clerk.

**Mont., Roundup**—Hearing March 1, on sewer plans for the city, F. A. Appelman, city clerk.

**Neb., Broken Bow**—Bond proposition for sewer work defeated.

**Neb., Scribner**—New sewer survey and estimate of a total cost of \$20,000 has revived interest in sewer district; address city clerk.

**Ore., Bandon**—Council has accepted plans for sewer district No. 4 and also No. 7; estimated cost of No. 7, \$1,164.

**Ore., McMinnville**—City is considering sewer work costing about \$16,000; address city clerk.

**Sask., Assiniboia**—Reported that ward 4 will construct a sewer system to cost \$133,115; address city clerk.

**Wis., Eau Claire**—Sewer work will be done here this season as follows, cost being about \$10,000: Erin st., 1,000 feet; Mappa st., 1,550 feet; Sara st., 300 feet; Chippewa st., 900 feet; Congress st., 250 feet; Niagara st., 900 feet; Broadway, 900 feet; Franklin st., 500 feet; Hudson st., 500 feet; Bellevue av., 1 block; Madison st., 500 feet; Putnam, 600 feet; Williams and Farwell, 800 feet; Water st., 1,500 feet; Menomonie st., 500 feet; Mappa st. N., 750 feet; address city clerk.

**Wis., Neenah**—Board public works recommend building of sewer in 4th ward from city limits to the slough at an estimated cost of \$4,045 for 30-inch pipe; address city clerk.

**Wis., New London**—Hearing March 9, on sewer for Quincy st., A. Meinhardt, chairman, board public works.

**Wis., Superior**—City commission has ordered a sewer at the South End between Cumming and Baxter, etc.

## BIDS WANTED.

**Iowa, Leon**—City clerk instructed to prepare notice for bids for about nine miles of additional sewer with a double Imhoff septic tank; cost about \$40,000; address city clerk.

**Iowa, Mason City**—Bids received by J. H. McEwen, city clerk, until 10 a. m., March 10, for approximately 23,000 feet of sub-mains and laterals, to be of the best quality vitrified sewer pipe, 8, 10, 12 and 15-inch in diameter, five separate proposals.

**Iowa, Owawa**—Reported bids have been called for on construction of sewer system, work to begin April 15; Bruce & Standeven, engineers, Omaha.

**Minn., Hibbing**—Reported that bids for material for the Alice sewer will again be advertised; D. D. Haley, village recorder.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 8, for a sewer on Raymond av.; also, on Topping st.; also, on Charlton st.; also, on Magnolia st.; also, on Iglehart av., etc.; also, on Morton st.; also, on Fuller st.; also, in Eva st.; also, in Princeton av., etc.; also, for the Front and McKenty sewer; also, on James st.; also, on Roblyn av., etc.; also, on 3d st.; bond for 20 per cent or check for 10 per cent.

**Mont., Butte**—Bids received by W. J. Flood, commissioner public works, until 5 p. m., March 17, for 13 miles of 8, 10 and 12-inch sanitary sewer; check for 10 per cent.

**Mont., Great Falls**—Bids received by W. H. Harrison, city clerk, until 8 p. m., March 2, for a 9-inch sanitary sewer in 10th alley north, etc.; check for 10 per cent.

**Ore., Enterprise**—Bids received by city recorder until Mar. 22, for 2½ miles of trunk drains, a septic tank and short laterals.

**Wis., Oconomowoc**—Bids received by H. A. Ernst, chairman, board public works, until early in March for 535 lineal feet 8-inch sewer pipe, 1,200 feet 12-inch, 5 manholes and 2 flood gates; check for 5 per cent.

## CONTRACTS AWARDED.

**Kan., Eldorado**—Contract to McCoy & Taylor, Kansas City, Mo., for sewage purification plant at \$8,882; other bidders were: Heany Construction Co., Enid, Okla., \$9,215; Sharp Bros., El Dorado, Kans., \$12,439; Kansas Paving & Construction Co., Kansas City, Mo., \$10,281; Tonkawa Construction Co., Kansas City, Mo., \$9,591; Stack & Curry, Kansas City, Mo., \$9,698; M. W. Halben, Gary, Ind., \$10,820; Everett & Burt, Hutchinson, Kans., \$9,861; O'Neil Construction Co., Leavenworth, Kans., \$10,861.

**Neb., Grand Island**—Contract to Wm. Kelly & Co., city, for sewer in district No. 44, \$1,704, and for extension of Vine st. main at 432; the bid of the Grand Island Plumbing Co. was \$1,914, for the No. 44, and \$456 for the extension of the Vine st. main.

**Wis., Superior**—Contract to Magnus Peterson for "P" st. sewer at Central Park, at \$2,648.



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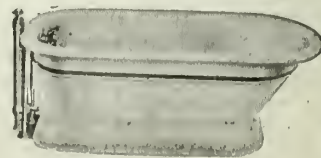


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## STREET AND ROAD WORK

**Iowa, Davenport**—Largely signed petition asks for repaving and resurfacing of Main st., between 4th and Locust sts.; asphaltic concrete; address city clerk.

**Iowa, Emmetsburg**—Council has authorized employment of consulting engineer to aid city engineer with 24 blocks of contemplated paving; address city clerk.

**Iowa, Le Mars**—Hearing March 6 on paving Main st. and a certain alley; E. S. Townsend, city clerk.

**Iowa, Marshalltown**—Hearing March 16 on 54 blocks of proposed paving, not including part of the Lincoln highway that lies inside of the city; concrete, 5-inch foundation and 2-inch wearing surface; address city clerk.

**Iowa, Millard, Odebolt and Spencer**—All considering paving; address city clerks.

**Mich., Hancock**—Street committee and engineer instructed to prepare specifications and estimates for paving of Front and Reservation sts.; address city clerk.

**Minn., Crookston**—The council has adopted the recommendation of the street committee that paving be done on a number of streets, aggregating 25,000 square yards, to be concrete base with concrete-asphalt surface; address city clerk.

**Minn., Deerwood**—Surveying has begun on that part of state highway No. 6, running between Deerwood and the Aitkin county line; State Engineer L. Garrison and Assistant H. M. Muller are in charge.

**Minn., South St. Paul**—City council will ask legislature for authority to issue paving bonds in sum of \$40,000 to pave Concord st. connecting the suburb with St. Paul; cedar blocks; cost probably \$95,000; address city clerk.

**Mont., Butte**—Grading and sidewalks in Farrell addition on east side near Western Iron Works, is under consideration at an estimated cost of \$10,000; address city clerk.

**Mont., Great Falls**—City council has ordered concrete sidewalk and curbing on various streets and avenues; M. L. Morris, city engineer.

**Neb., Falls City**—Citizens are urging more paving for 1915; address city clerk.

**Neb., Omaha**—City commission will probably pass ordinance soon for \$100,000 bond issue for paving street intersections; Perry Wheeler, city clerk.

**Ore., Bay City**—Only bid for improving a number of streets here was submitted by P. A. Sandberg, 407 Stanton st., Portland, at \$33,362.

**S. D., Yankton**—Hearing March 22, on paving Douglas av.; John W. Summers, city auditor.

**Wash., Ephrata**—Surveys completed for 8 miles of Connell cut-off, cost \$20,000; plans to be prepared for two miles of Soap Lake Siding road, cost \$10,000; E. H. Stradling, county engineer.

**Wash., Seattle**—Of 19 bids for paving a certain district, two will be considered: T. Ryan, who wants \$67,843 for 12 blocks of brick paving, and \$70,688 for wood blocks; the Jahn Contracting Co. will pave with brick alone for \$70,936; brick with plank cover, \$72,243; wood blocks, \$69,419.

**Wash., Tacoma**—Council voted to pave Pacific av. with asphalt; cost \$45,000; address city clerk.

**Wis., Appleton**—Paving bids recently opened show White Construction Co., Milwaukee, to be the lowest at \$1.89 per yard for asphalt; Green & Sons, Appleton, were lowest on brick paving on W. College av., at \$2.19; the C. Peterson Construction Co., of Kenosha bid \$2.67 for paving with creosote and \$1.54 with cement.

**Wis., Delavan**—Council voted to lay 15-foot concrete pavement on 7th st., etc., and to pave the west end of Walworth av. with brick; P. J. Hurtgen, city engineer.

**Wis., Eau Claire**—Paving has been authorized to be done this summer on the following streets: Summit av., Washington, Barstow st., Main st. and Park av.; total cost about \$15,600.

**Wis., Green Bay**—Reported that County Highway Commissioner Cornier of Brown county has asked for bids on 10,000 barrels of cement to be used on the Green Bay-De Pere concrete road.

**Wis., Oshkosh**—Plans for the paving of 12th st., Harrison st., W. Algoma st., Lincoln av., Eveline st., Lake Drive, Vine st., and a certain alley have been approved; Leo. T. Mulva, deputy city clerk.

**Wis., Racine**—Committee of which Supervisor Patrick Tobin of Pleasant Prairie is chairman, has been appointed by the county board to buy road machinery; a rock crusher will probably be the first purchase.

**Wis., Superior**—City commission will build a concrete culvert on Hill av., estimated to cost \$2,600.

**Wis., Sheboygan**—Bids received by board of public works until Feb. 27, for paving North st., requiring 14,645 square yards concrete paving and 8,065 lineal feet curb; bond of \$7,000.

### BIDS WANTED.

**Iowa, Mason City**—Bids received by J. H. McEwen, city clerk, until 10 a. m., Feb. 24, for curbing and paving, 10 proposals: No. 1, 7,800 square yards paving and 4,400 lineal feet curbing; check for \$1,500; No. 2, 11,318 square yards paving, 6,500 lineal feet curb, check for \$2,000; No. 3, 4,800 square yards paving, 2,500 lineal feet curb, check for \$1,000; No. 4, 9,600 square yards paving, 5,256 lineal feet curb, check for \$2,000; No. 5, 7,290 square yards paving, 3,400 lineal feet curbing, check for \$1,500; No. 6, 13,900 square yards paving, 5,824 lineal feet curbing, check for \$2,500; No. 7, 4,403 square yards paving, 1,000 lineal feet curbing, check for \$1,000; No. 8, 400 square yards paving, 1,211 lineal feet curbing, check for \$1,000; No. 9, 12,611 square yards paving, 7,032 lineal feet curbing, check \$2,500; No. 10, 1,200 square yards paving, check for \$500; curbing to be Portland cement, 5 inches thick, 18-inch deep; paving to be of either natural pitch lake asphalt on concrete base, either Trinidad, Bermudez, or other natural pitch lake asphalt; or, artificial asphalt, or plain Portland cement concrete, or reinforced cement concrete, or brick paving blocks.

**Iowa, Davenport**—Bids received by John W. Crowley, commissioner public works, until 2 p. m., March 2, for laying permanent sidewalks in the 1st 2d and 3d road districts of the city of Davenport; check for \$100.

**Iowa, Le Mars**—City clerk has been instructed to advertise for supplies for county for 1915, including among other things lumber and cement. Resolutions have also been passed for paving Main st. from 4th to Broadway, and alley between 7th and 8th sts. in block 47.

**Iowa, Tama**—Bids received by city clerk, until March 3, for 40,000 square yards street paving brick.

**Minn., Duluth**—Bids received by O. Halden, auditor St. Louis county, until 2 p. m., March 5, for 2 miles of the Leander road.

**Minn., Duluth**—Bids received by Roderick Murchison, board of public works, until March 1, for a concrete paving mixer with an automatic water tank, a traction drier, power loader, dump basket and trough; \$12,000 recently appropriated to purchase equipment for the department.

**Minn., Minneapolis**—Bids received by Al. P. Erickson, auditor Hennepin county, until 11 a. m., March 15, for grading and macadamizing road No. 29, village of Richfield and town of Bloomington; check for 5 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 8, for grading and improvement on Belmont st., Avon st., alley in Kendrick's rearrangement of block 4, Finn av., and Cleora st., bond for 20 per cent or check for 10 per cent.

**Minn., Winona**—Bids officially called for in this issue of The Improvement Bulletin, to be received until 2 p. m., March 23, by C. W. Auding, county auditor, for state rural highways in Winona county.

**Mont., Missoula**—Bids received by L. E. Harris, city clerk, until 10 a. m., March 10, for 10,305 square yards paving in district No. 33, to be of vitrified brick, creosoted wood block, bitulithic, asphaltic concrete, asphaltic macadam, (specifications A or B); plans on deposit of \$2; check 10 per cent.

**Neb., Columbus**—Bids received by Wm. Becker, city clerk, until 8 p. m., March 2, for 12,000 feet of curb and gutter and curb approaches, and 50,134 square yards of paving; check for \$1,000 on curbs and gutters, and for \$5,000 for paving; L. F. Gottschalk, city engineer.

**Neb., Omaha**—Bids received by Thomas J. Flynn, city clerk, until 9 a. m., March 2, for paving and curbing on several sts.; check for 5 per cent; but to be not less than \$100.

**N. D., Bismarck**—Bids received by T. E. Flaherty, auditor of Burleigh county, until 2 p. m., March 3, for tiling and labor to drain water from certain public highway; check for 5 per cent.

**N. D., Jamestown**—Bids received by county auditor until 2 p. m., April 6, for corrugated galvanized metal steel culverts, sizes 20 to 60 inches; bidders to exhibit samples of culverts at least two feet long.

**N. D., Kenmare**—Bids are wanted by Eyan Griffith, city auditor, for sidewalks, to be in at the regular meeting of the council in April; check for \$50.

**Wash., Davenport**—Bids reported wanted by G. G. Harvey, county engineer, until March 12, for constructing 12 miles of highway.

**Wis., Elkhorn**—Bids received by H. J. Peters, highway commissioner Walworth county, until 2 p. m., March 12, for 7,100 barrels Portland cement, delivered at Delavan, f. o. b.; check for 5 per cent.



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OUR SPECIALTY

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Sawed, Planed,  
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Polished Stone.

*Rough, Crushed, Footing and Rubble Stone*

Dealers in all kinds of STONE. **Breen Stone Co., Inc.**

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Pure, brilliant in tone, economical in use, absolutely reliable and a permanent guarantee against fading and washing. Why not insist on having them?

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Show a beautiful variety of shades and colors suitable to large and small buildings.

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Makers of Art Fashioned Brick

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**MANTORVILLE STONE CO., Quarrymen**

Cut Stone Contractors of all Kinds of Stone. *ESTIMATES ON REQUEST*

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Mantorville, Minn.

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MANKATO, MINN.

Paving, Road Building, Concrete Bridges, Pile Driving

**FAMOUS MANKATO STONE**

Building Dimension, Cut and Crushed Stone.

MARBLE FOR INTERIOR FINISH



base of 6½-inches in the center and growing thinner at the sides, with wearing surface of 1½ inches granite, sand and cement.

**Wis., Hudson**—Bids received by E. E. Denniston, city clerk, until March 1, for one street oiler, air pressure type, 750 gallons capacity; also 8,000 gallons oil.

**Wis., Madison**—Bids received by W. H. Sommers, county highway commissioner, until 10 a. m., March 2, for 19,300 square yards concrete paving, 7,452 lineal feet curb and gutter, and 4,500 cubic yards excavation; plans and specifications on file at the office of the county highway commissioner, Madison, Wis.; certified check for \$500.

**Wis., Oshkosh**—Bids received by James Binning, county highway commissioner, until 10 a. m., March 1, for engine and water tank to run stone crusher.

**Wis., Sparta**—Bids received by E. G. Kowitz, chairman, street commission, until March 17, for 1,390 cubic yards, grading, 41,333 square yards brick paving on sand foundation, 2,982 feet curb and gutter and 196 feet of headers.

**Wis., Superior**—Bids received by F. C. Tomlinson, commissioner, until 1 p. m., March 4, for grading and paving on Weeks av., concrete foundation, with wearing surface of reinforced concrete, sheet asphalt, brick or asphaltic concrete, guarantee for five years.

**Wis., Superior**—Bids received by W. R. Russell, chairman, board public works, until 1 p. m., March 8, for improvement of N. 13th st., by paving with concrete foundation and wearing surface of sheet asphalt, reinforced concrete or asphaltic concrete.

**Wis., Superior**—Bids received by W. R. Russell, chairman, board public works, until 1 p. m., March 9, for improvement and repaving of N. 4th st. with concrete foundation and wearing surface of sheet asphalt, reinforced concrete, asphaltic concrete or brick, or bituminous macadam or concrete.

#### CONTRACTS AWARDED.

**Iowa, Belle Plaine**—Contract to the Widell Co., Mankato, Minn., for 27½ blocks concrete paving at \$1.35 per square yard with curb at 32c per front foot, castings and wrought iron at 4½c per foot, and excavations at 40s per cubic yard.

**Iowa, Cedar Falls**—Contract to A. J. Jaicks & Co., Kansas City, Mo., for 40,000 square yards paving, sheet asphalt, at \$1.54 per yard and to W. A. Bryant & Son, Waterloo, 7,200 square yards asphaltic concrete at \$1.40.

**Minn., Duluth**—Contract to Barber Asphalt Co. for a 5-ton tandem roller at \$1,581.

**Neb., Lincoln**—Contract to Burke-Cochrane Construction Co., city, for paving district No. 305 at \$15,065, the only other bidder being Abel & Roberts, city, at \$15,250; also, to Burke-Cochrane Construction Co., city, for district No. 309 at \$1,940, the only other bidder being Abel & Roberts, at \$1,963; Theo. H. Berg, city clerk.

**N. D., Ashley**—Contract to Wheeling Corrugating Co. for metal culverts at \$868.

**Wis., Milwaukee**—Contract to Ritzlaff & Froemming, city, for 3 miles of paving on the North Fond du Lac road with concrete, and to the Milwaukee General Construction Co., for 6 miles on the Kilbourn road.

**Wis., Superior**—Contract to Russell Construction Co. for paving lower Tower av. with concrete at \$5,980.

#### NEW FIRMS INCORPORATED

**Iowa, Clinton**—Clinton Lock Co., L. B. Ogden, president; David B. Ogden.

**Iowa, Council Bluffs**—Iowa Soda Products Co., \$25,000; Karl K. Kornstein, L. B. Alger, D. E. Harrison, H. E. Smith, Kimball & Peterson, attorneys, Council Bluffs.

**Iowa, Davenport**—Pioneer Manufacturing Co., \$10,000; Louis M. Marks, P. H. Lunau, Joseph Andrews.

**Iowa, Des Moines**—The Great Western Sales & Credit Co., \$10,000; J. C. Fellenz, Geo. M. Thomas, George E. Cromley.

**Iowa, Des Moines**—The Chesterfield Clothing Co., \$20,000; Geo. R. Curzon, Julius F. Zedarman. The United Mortgage & Loan Co., \$10,000; R. B. Thode, Faye A. Thode.

**Iowa, Shenandoah**—Farmers' Electric Light Co., \$1,000, Dean F. Sweeney, Thos. Van Swearingen, E. P. Hunter and others.

**Mich., Lansing**—Farmers' Independent Produce Co., Claire, \$10,000; S. G. & M. Cigar Co., Detroit, \$2,000.

**Minn., Bemidji**—Northern Celery Co., \$50,000; R. C. Hayner interested.

**Minn., Bemidji**—Bemidji Drainage Co., \$50,000, Jacob Kohlen, A. R. Kohlen, M. Kohlen.

**Minn., Dodge Center**—Edgar C. Piersol Co., \$200,000; E. C. Piersol, M. E. Piersol, A. E. Lacey and others.

**Minn., Duluth**—Bessemer Iron Mining Co., \$500,000; R. P. Goff, E. S. Forsell, B. Roberts.

**Minn., Fergus Falls**—A. H. Denniston Tile Works, \$50,000; A. H. Denniston, A. R. Kitts, W. L. Patter, Fred E. Hodgson, N. F. Field.

**Minn., Glenwood**—Glenwood Lumber Co., Glenwood, \$50,000; J. A. Wedum, president, Alexandria; Henrik Shepsted, vice president, Glenwood, C. O. Ettesvald, secretary-treasurer, Glenwood.

**Minn., Green Valley**—Farmers' State Bank of Green Valley, \$10,000; H. J. Tillemans, A. J. Kile, S. B. Erickson.

**Minn., Hibbing**—Mesaba Real Estate Co., \$20,000, Wm. Lemberg, Peter Peterson, Sivert Lekve, John Munter, Ernest Edward Anderson.

**Minn., Little Falls**—The Kiewel Securities Co., \$50,000; Jacob Kiewel, eGorge Kiewel, Joseph Kiewel, Frank Kiewel and Benj. Kiewel, Little Falls.

**Minn., Minneapolis**—Bessemer Iron Mining Co., \$500,000; R. P. Goff, E. S. Forseel.

**Minn., Minneapolis**—Tom Thumb Traction Co., \$10,000; Geo. C. Jones, DeWitt Nieson, O. W. Bowen.

**Minn., Minneapolis**—Twin City Master Plasterers' Exchange, O. J. Sweeny, Chas. Larson, Wm. Poppenberger, Geo. Thill, Chas. Engstrom, H. Wicken, G. A. Gottbehut.

**Minn., Minneapolis**—F. J. Lyon Co., \$25,000; F. J. Lyon, A. G. Lyon, H. K. Wheeler.

**Minn., Minneapolis**—T. and L. D. Libby Co., \$50,000; Thomas Libby, L. D. Libby, A. E. Libby.

**Minn., Minneapolis**—Northwestern Furniture Manufacturing Co., \$50,000; Louis L. Schwartz, president, Minneapolis; C. F. Lienke, vice president, Minneapolis; H. M. McIntyre, secretary-treasurer, Minneapolis; Louis Schwartz, attorney, Minneapolis.

**Minn., Minneapolis**—Todd Manufacturing Co., \$50,000; Frank Todd, president; Morgan C. Wood, vice president; Benjamin A. Wolfe, secretary-treasurer, Minneapolis.

**Minn., Minneapolis**—Hennepin Tire & Repair Co., \$25,000; E. Raymond Scheefe, president, Minneapolis; Conway Wisley, secretary-treasurer, Minneapolis; Amos H. Scheefe, vice president; Chas. F. Keely, attorney, 317 Plymouth building, Minneapolis.

**Minn., New Richland**—New Richland Hotel Co., \$10,000; Carl A. Newgaard, John A. Tyrholm, Henry E. Johnson.

**Minn., Rochester**—Metropolitan Amusement Co., \$50,000; Wm. J. Pierce, Gregory P. Gentling, Allen J. Furlow, Walter S. Furlow.

**Minn., Starbuck**—Starbuck Lumber Co., \$50,000; O. E. Larson, Starbuck, president; V. L. Larson, vice president; I. S. Skoglund, secretary-treasurer, all of Starbuck.

**Minn., St. Cloud**—Hilder Granite Co., \$110,000; David A. McGregor, Frank E. McGregor, Murray McGregor.

**Minn., St. Paul**—Red River Valley Railway Co., \$100,000; Julius A. Schmahl, secretary of state; W. H. Graves, C. M. Drew, of Minneapolis and Robert Hamilton of Milwaukee, incorporators.

**Minn., Utica**—Utica Grain Co., Utica, \$10,000; Wm. G. Sackreiten, president, Lewistown, Minn.; J. J. McCarthy, vice president; J. J. Campbell, secretary-treasurer, of Utica; R. D. Landon, attorney, Utica.

**Minn., Wood Lake**—Citizens State Bank, \$15,000; L. P. Dolliff, J. P. Hauck, Erick Johnson.

**Mont., Acton**—Acton State Bank, \$20,000; C. J. Eddy, O. J. Thomas, R. B. Ketchum.

**Mont., Billings**—Montana Honey Producers' Association, \$50,000; W. Hickok, D. O. Hickok, A. E. Schillhorn.

**Mont., Butte**—The Sheils & Ironside Mining & Milling Co., \$500,000; John S. Sheils, Fred A. Ironside, Stanley Ironside, of Boulder, Mont., Butte, Mont. and Camden, N. J.

**Mont., Glendive**—Griffin Livestock Co., Glendive, \$50,000; Arnold Griffin, Carroll Griffin, Amy Griffin, Maisie Griffin, all of Glendive; F. P. Deiper, attorney, Glendive.

**Mont., Livingston**—The Mayne Store, \$25,000; Wm. E. Weber, Livingston; John J. Weber, Livingston; Mathias Weber, Spokane, Wash.; James F. O'Connor, attorney, Livingston.

**Mont., Red Lodge**—Gunnery Drug Co., \$15,000; H. T. Gunnery, J. C. Gunnery, A. H. Jordan, all of Red Lodge.

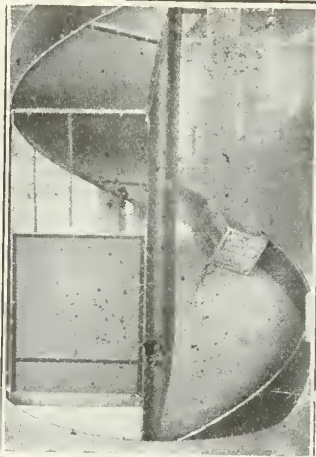
**Mont., Red Lodge**—Red Lodge Abstract & Title Co., \$10,000; F. A. Hauswald, J. E. Deegan, Red Lodge.

**Neb., Lincoln**—Security State Bank of Ansley, \$20,000; C. E. Mattley, A. C. Marmencer, A. P. Dobesh; First State Bank of Dickens, \$10,000; Charles A. Liston, F. C. Melsticker, M. E. Scott.

**N. D., Buford**—Buford Farmers' Grain & Mercantile Co., Buford, N. D., \$10,000; John Harp, James Beisel, Harry Abbott, Buford, N. D.

**Wis., Fond du Lac**—Bids received by J. S. McCullough, chairman, board public works, until 3 p. m., March 17, for improving Johnson and Superior sts., and Western and Cottage avs., with a reinforced cement pavement of concrete





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Economical Method of  
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for soiling your house,  
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putting in coal through or-  
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protects the building just  
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secure our  
prices. We  
can furnish  
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Board in  
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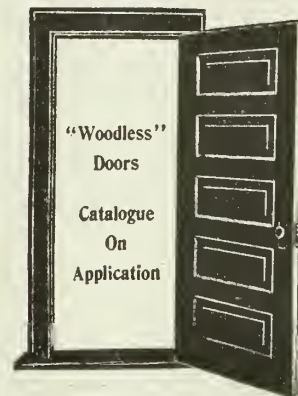
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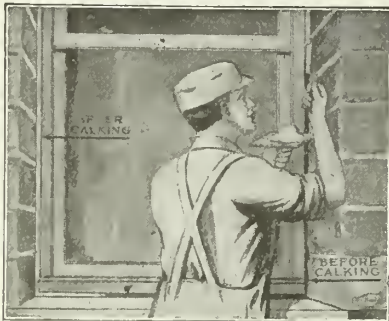


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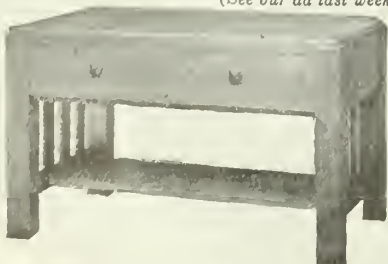
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We also make weath-  
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for glazing. Our  
materials stay per-  
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"Plenty of iron in it." M'nuf'd by  
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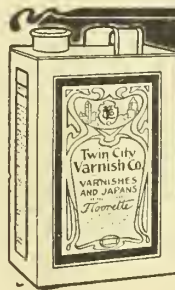
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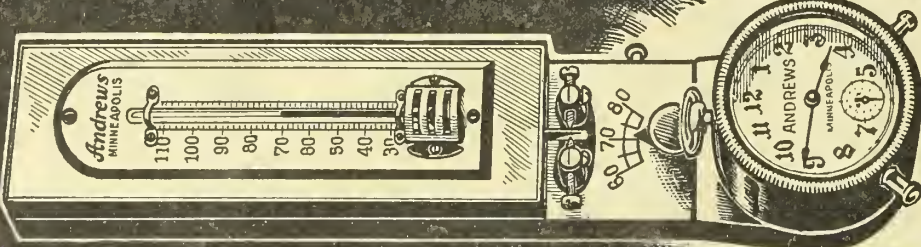
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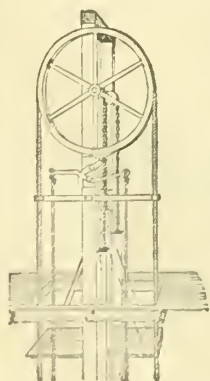
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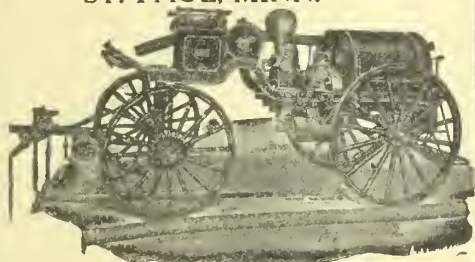
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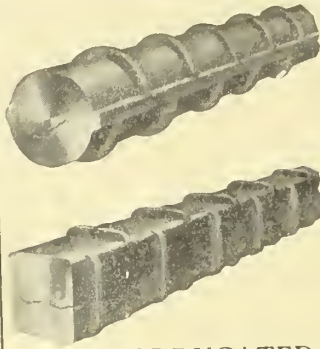
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Motto: Not how cheap  
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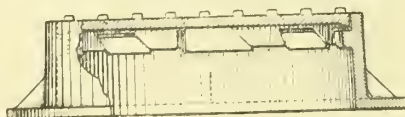
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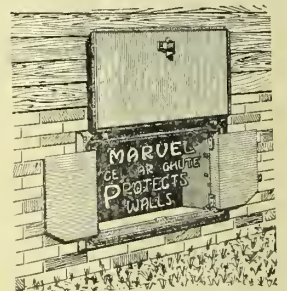
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418	16	22	18	105	8.00
518	16	28	18	120	9.00
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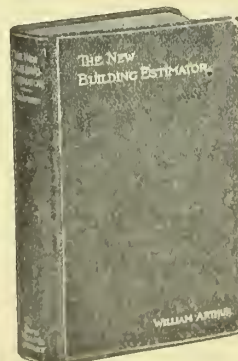
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Minneapolis, Minn.



*A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.*

Number 14

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# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

## ARCHITECTURAL MODELING.

Hydraulic Press Brick Co., Minneapolis, Minn.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

## ARCHITECTS' SUPPLIES.

Minneapolis Blue Ptg. Co., Mpls., Minn.

ASBESTOS AND MAGNESIA PRODUCTS.

Haakinson & Beatty Co., Sioux City, Iowa

H. W. Johns-Manville Co., Minneapolis, Minn.

Krieger-Jannar Co., Duluth, Minn.

W. S. Nott Company, Minneapolis, Minn.

## ARTESIAN WELLS.

J. F. McCarthy, Minneapolis, Minn.

S. Swenson Artesian Well Co., Minneapolis, Minn.

## BANKS.

Northwestern National Bk., Mpls., Minn.

## BANK AND STORE FIXTURES.

H. W. Johns-Manville Co., Minneapolis, Minn.

## BOILERS.

Andrews Heating Co., Minneapolis, Minn.

Associate Mrs. Supply Co., Mpls., Minn.

Crane & Ordway Co., St. Paul, Minn.

Hassey Heating Co., Minneapolis, Minn.

Mechanical Specialty Co., Minneapolis, Minn.

## BONDS-SURFTY.

Hood & Matschke Co., Minneapolis, Minn.

Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.

## BLASS GOODS.

National Mfg. & Supply Co., Mpls., Minn.

## BRICK AND TILE.

American Brick & Tile Co., Mason City, Ia.

Belt Line Brick Co., Minneapolis, Minn.

Boone Brick, Tile & Paving Co., Boone, Ia.

Chaska Brick & Tile Co., St. Paul, Minn.

Dickinson Brick Co., Dickinson, N. D.

Excelsior Brick Co., Menomonie, Wis.

Flint Brick Co., Des Moines, Ia.

Fowler & Pay., Mankato, Minn.

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Hebron Fire & Pressed Brick Co., Hebron, N. D.

Hydraulic Press Brk. Co., Minneapolis, Minn.

Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.

Lehigh Sewer Pipe & Tile Co., Fort Dodge, Iowa

Mason City Brick & Tile Co., Mason City, Ia.

Rufus P. Morton, Princeton, Minn.

National Fireproofing Co., Minneapolis, Minn.

Northwestern Fireproofing Co., Mpls., Minn.

A. C. Ochs Brick & Tile Co., Springfield, Minn.

Red River Valley Brick Corporation, Grand Forks, N. D.

Shakopee Cement Lime Co., St. Paul, Minn.

Shevlin-Carpenter Lumber Co., Minneapolis

Sioux City Brick & Tile Works, Sioux City, Ia.

Standard Salt & Cement Co., Duluth, Minn.

St. Paul Lime & Cement Co., St. Paul, Minn.

Twin City Brick Co., St. Paul-Mpls., Minn.

## BRIDGES.

American Bridge Co., Minneapolis, Minn.

Clinton Bridge Works, Clinton, Ia.

Corrugated Bar Co., St. Paul, Minn.

Crown Iron Works Co., Minneapolis

Minneapolis Steel & Mach. Co., Mpls., Minn.

Haakinson & Beatty Co., Sioux City, Iowa

N. W. Concrete Steel Co., Minneapolis, Minn.

St. Paul Foundry Co., St. Paul, Minn.

## BUCKETS-CONTRACTORS'.

H. B. Jones, Security Bank, Minneapolis

G. E. Ingersoll & Co., St. Paul, Minn.

## BUILDING MATERIAL.

Baxter Sash & Door Co., Duluth, Minn.

Biesanz Stone Co., Winona, Minn.

Carr-Cullen Co., Minneapolis, Minn.

Dunton-Moore Co., Duluth, Minn.

Fowler & Pay., Mankato, Minn.

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn.

Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co., Mpls. and St. Paul, Minn.

Landers-Morrison-Christensen Co., Minneapolis, Minn.

W. S. Nott Company, Minneapolis, Minn.

Osgood & Blodgett Mfg. Co., St. Paul, Minn.

Scott-Graff Lumber Co., Duluth, Minn.

Shakopee Cement Lime Co., St. Paul, Minn.

Northland Pine Co., Minneapolis, Minn.

The Northwestern Lime Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

## BUILDERS' SPECIALTIES.

Dunton, Moore Co., Duluth, Minn.

Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.

Paine & Nixon Co., Duluth, Minn.

Standard Salt & Cement Co., Duluth, Minn.

G. A. Turner, Minneapolis, Minn.

## CALKING PASTE.

Minnesota Weatherproof Calking & Glaz-

ing Co., Minneapolis, Minn.

W. S. Nott Company, Minneapolis, Minn.

## CEMENT.

Atlas Portland Cement Co., Minneapolis

Carver's Cement Works, Mankato, Minn.

Fowler & Pay., Mankato, Minn.

General Western Material Co., Waterloo, Ia.

Hydraulic Press Brick Co., Minneapolis, Minn.

Landers-Morrison-Christensen Co., Minneapolis, Minn.

N. W. Lime Co., Mpls. and St. Paul, Minn.

N. W. States Portland Cement Co., Mason City, Iowa

Shakopee Cement Lime Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Shakopee Lime & Cement Co., Superior, Wis.

Northland Pine Co., Minneapolis, Minn.

St. Paul Lime & Cement Co., St. Paul, Minn.

Universal Portland Cement Co., Minneapolis

CROWN IRON WORKS CO., Minneapolis

Minneapolis Steel & Mach. Co., Mpls., Minn.

St. Paul Foundry Co., St. Paul, Minn.

## CEILINGS, STEEL.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Berger Mfg. Co., Minneapolis, Minn.

Canton Steel Ceiling Co., Minneapolis, Minn.

Haakinson & Beatty Co., Sioux City, Iowa

H. W. Johns-Manville Co., Minneapolis

H. C. Thomas & Bro., La Crosse, Wis.

## CEMENT FILLER.

Hydraulic Press Brick Co., Minneapolis, Minn.

W. S. Nott Company, Minneapolis, Minn.

Standard Salt & Cement Co., Duluth, Minn.

## COAL CHUTES.

American Bridge Co., Minneapolis, Minn.

Avery Steel & Iron Co., Minneapolis

Crown Iron Works Co., Minneapolis

Enterprise Iron Works, Albert Lea, Minn.

Fowler & Pay., Mankato, Minn.

Gardner Hardware Co., Minneapolis, Minn.

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Interstate Mfg. Co., Oskaloosa, Ia.

Majestic Furnace & Fdy. Co., Mpls., Minn.

Northern Insulating Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

St. Paul Foundry Co., St. Paul, Minn.

## COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn.

Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company, Minneapolis, Minn.

## CONCRETE CONSTRUCTION.

Avery Steel & Iron Co., Minneapolis

Corrugated Bar Co., St. Paul, Minn.

C. A. P. Turner, Minneapolis, Minn.

CONTRACTORS LEVELS AND SUPPLIES

David White Co., Milwaukee, Wis.

## CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.

Badger Concrete Mixer Co., Milwaukee, Wis.

Brastad Concrete Mach. Co., Canton, S. D.

Cement Tile Machinery Co., Waterloo, Ia.

Chain Belt Co., Milwaukee, Wis.

Contractors Machinery Co., Keokuk, Iowa

Koehring Machine Co., Minneapolis, Minn.

Minneapolis, Minn., and Milwaukee, Wis.

The Lansing Co., Minneapolis, Minn.

N. W. Concrete Steel Co., Minneapolis

Raymer Hardware Co., St. Paul, Minn.

The T. L. Smith Co., Milwaukee, Wis.

N. W. Steel & Iron Works, Eau Claire, Wis.

Standard Salt & Cement Co., Duluth, Minn.

Milwaukee Concrete Mixer Co., Milwaukee, Wis.

Chas. H. Stebbins Co., Milwaukee, Wis.

Waterloo Cement Machinery Co., Waterloo, Iowa

Ellis Woolman, Minneapolis, Minn.

E. Wegs Concrete Machinery Co., La Crosse, Wis.

## CONCRETE REINFORCING BARS.

Avery Steel & Iron Co., Minneapolis

Inland Steel Co., St. Paul, Minn.

Corrugated Bar Co., St. Paul, Minn.

General Western Material Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

N. W. Concrete Steel Co., Minneapolis, Minn.

Minneapolis Steel & Mach. Co., Mpls., Minn.

Northwestern Steel & Iron Works, Eau Claire, Wis.

St. Paul Foundry Co., St. Paul, Minn.

## CORNICES.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Berger Mfg. Co., Minneapolis, Minn.

Griffin & Boehme, St. Paul, Minn.

F. V. Haverland, Minneapolis, Minn.

Milwaukee Corrugating Co., Milwaukee, Wis.

Minnesota Roofing & Cornice Works, St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.

St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.

H. C. Thomas & Bro., La Crosse, Wis.

## CORRUGATED IRON, ETC.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Avery Steel & Iron Co., Minneapolis

Berger Mfg. Co., Minneapolis, Minn.

Corrugated Bar Co., St. Paul, Minn.

American Bridge Co., Minneapolis, Minn.

## CONCRETE REINFORCING.

Berger Mfg. Co., Minneapolis, Minn.

Inland Steel Co., St. Paul, Minn.

N. W. Concrete Steel Co., Minneapolis, Minn.

## CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Ellis Woolman, Minneapolis, Minn.

## CULVERTS.

Berger Mfg. Co., Minneapolis, Minn.

Biesanz Stone Co., Winona, Minn.

Galion Iron Works, Minneapolis, Minn.

Klauser Mfg. Co., Dubuque, Iowa

Minneapolis Steel & Mach. Co., Mpls., Minn.

Fowler & Pay., Mankato, Minn.

General Western Material Co., Waterloo, Ia.

Kettle River Co., Minneapolis, Minn.

Klauser Mfg. Co., Dubuque, Ia.

Mantorville Stone Co., Mantorville, Minn.

New Ulm Stone Co., New Ulm, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Wildell Co., Mankato, Minn.

Minneapolis, Minn.

## HEADENING MATERIAL.

Cement Tile Machinery Co., Waterloo, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn.

Minneapolis, Minn., and Milwaukee, Wis.

Northern Insulating Co., St. Paul, Minn.

W. S. Nott Company, Minneapolis, Minn.

Standard Salt & Cement Co., Duluth, Minn.

Union Fibre Co., Winona, Minn.

## DECORATIONS.

Udln J. Oyen, La Crosse, Wis.

## DITCHING MACHINES.

Bay City Dredge Works, Bay City, Mich.

United Iron Works, Springfield, Mo.

## DREDGES.

Bay City Dredge Works, Bay City, Mich.

## ELECTRICAL ENGINEERING.

Beck Electrical Construction Company, Minneapolis, Minn.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

ELFECTRIC MOTORS AND S'PLIES

Beck Electrical Construction Company, Minneapolis, Minn.

H. W. Johns-Manville Co., Minneapolis, Minn.

Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Sterling Electric Co., Minneapolis, Minn.

## ELEVATORS AND ENCLOSURES.

Kimball Bros Co., Council Bluffs, Iowa

Gust Lagerquist, Minneapolis, Minn.

Lee & Hoff Mfg. Co., St. Paul, Minn.

Frank A. Pigeon, Minneapolis, Minn.

## ELEVATOR CABS.

N. W. Fixture & Cabinet Co., Mpls., Minn.

## ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.

Walter H. Flood, Chicago, Ill.

Lewis A. Larsen, St. Paul, Minn.

Charles L. Pillsbury, Minneapolis, Minn.

L. P. Wolff, St. Paul, Minn.

M. B. Stone, Minneapolis, Minn.

W. P. Cowles, Minneapolis, Minn.

Power Engineering Co., Minneapolis, Minn.

## EXCAVATORS.

Bay City Dredge Works, Bay City, Mich.

## FIRE ESCAPES.

Avery Steel & Iron Co., Minneapolis

Crown Iron Works Co., Minneapolis

Des Moines Structural Steel Works, Des Moines, Ia.

Haakinson & Beatty Co., Sioux City, Iowa

Milwaukee Corrugating Co., Milwaukee, Wis.

St. Paul Foundry Co., St. Paul, Minn.

## FIRE HYDRANTS.

Waterous Engine Works Co., St. Paul, Minn.

## FIREPROOF DOORS.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Thorpe Fireproof Door Co., Minneapolis, Minn.

## FLUE LINING.

Hydraulic Press Brick Co., Minneapolis, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can be found by referring to the Alphabetical List of Advertisers

## INSULATING MATERIAL.

Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

## INSURANCE.

Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
Des Moines Structural Steel Works.....  
.....Des Moines, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Vogenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....  
.....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....  
St. Paul Foundry Co.....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co.....Chicago, Ill.  
LIME.

General Western Material Co.....Waterloo, Ia.  
Fowler & Pay.....Mankato, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Landers-Morrison-Christenson Co.....  
.....Minneapolis, Minn.  
Gust Lillyblad.....Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....  
.....St. Paul, Minn.  
Speakes Lime & Cement Co.....Superior, Wis.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

## MANTELS—GRATES.

Drake Marble & Tile Co.....  
.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.  
MARBLE, TILING, MOSAIC.  
Drake Marble & Tile Co.....  
.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
W. S. Nott Company.....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co.....Minneapolis, Minn.  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning Co.....  
.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation.....Iowa City, Iowa  
Standard Salt & Cement Co.....Duluth, Minn.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Builders Iron Works Co.....  
.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....  
.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn.  
Ricketson Mineral Paint Works.....  
.....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co.....New York, N. Y.

## PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

## PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PLASTER—WALL.

Fowler & Pay.....Mankato, Minn.  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## PLASTERING—ORNAMENTAL.

Monarch Co.....St. Paul, Minn.  
Roy Curtis.....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co.....Minneapolis, Minn.

## PLASTIC ORNAMENTS.

Monarch Co.....St. Paul, Minn.  
K. F. Lott & Co.....Mpls. and St. Paul, Minn.

## PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis, Minn.

## PLUMBING AND HEATING JOBBERS.

## POWER PLANTS.

National Mfg. & Supply Co.....Mpls., Minn.

## REVOLVING DOORS.

Van Kannel Revolving Door Co.....  
.....St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works.....Minneapolis, Minn.  
Russell Grader Mfg. Co.....Minneapolis, Minn.

## ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....  
.....St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.  
Selden Roofing & Manufacturing Co.....  
.....Minneapolis, Minn.

## ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Duluth Corrugating & Roofing Co.....  
.....Duluth, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....  
W. S. Nott Company.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
N. W. Roofing, Cornice & Stamping Works.....Minneapolis, Minn.  
H. C. Thomas & Bro.....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Barrett Mfg. Co.....New York, N. Y.  
Biesanz Stone Co.....Winona, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## ROOFING AND SIDING—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis

## SAND AND GRAVEL.

Humboldt Sand & Gravel Co.....Humboldt, Ia.  
Mason City Sand & Gravel Co.....  
.....Mason City, Ia.

## SHINGLES—RUBBER.

W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co.....Winona, Minn.  
General Western Material Co.....Waterloo, Ia.  
Standard Salt & Cement Co.....Duluth, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co.....Duluth, Minn.  
Carr-Challen Co.....Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.  
Northland Pine Co.....Minneapolis, Minn.

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Pipe & Tile Co.....Des Moines, Ia.  
Lehigh Sewer Pipe & Tile Co.....  
.....Fort Dodge, Iowa  
Northwestern Lime Co.....St. Paul, Minn.  
Plymouth Clay Products Co.....  
.....Red Wing, Minn.  
Red Wing Sewer Pipe Co.....Red Wing, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## SHADE ADJUSTERS.

Wm. J. Work.....St. Paul, Minn.

## SHEETS—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.

Gardner Hardware Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa

Inland Steel Co.....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis, Minn.  
Berger Mfg. Co.....Minneapolis, Minn.  
General Western Material Co.....Waterloo, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa  
K. F. Lott & Co.....  
.....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Haakinson & Beatty Co.....Sioux City, Iowa  
Peerless Marble & Tile Co.....Minneapolis, Minn.  
Twin City Tile & Marble Co.....Minneapolis, Minn.

## SKYLIGHTS.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Krieger-Jamar Co.....Duluth, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.  
H. C. Thomas & Bro.....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co.....Minneapolis, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

## STEEL—BARS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Twin City Tile & Marble Co.....Mpls., Minn.

## STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.  
Breen Stone Co.....St. Paul, Minn.  
Crawfanger Co.....Cedar Rapids, Ia.  
Fowler & Pay.....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.  
Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.  
New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.  
Sauk Rapids Granite Co.....  
.....Sauk Rapids, Minn.

Wm. Penn Stone Co.....Minneapolis, Minn.  
The Whidell Co.....Mankato, Minn.

## STRUCTURAL SECTIONS AND SHEETS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

Inland Steel Co.....St. Paul, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa

## TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## TERRA COTTA.

Belt Line Brick Co.....Mpls. and St. Paul  
General Western Material Co.....Waterloo, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning.....  
.....Minneapolis and St. Paul, Minn.  
K. F. Lott & Co.....  
.....Minneapolis and St. Paul, Minn.

## THEATER EQUIPMENT.

The Monarch Co.....St. Paul, Minn.

## TILE—CLAY—PARTITION AND FLOOR.

Hydraulic Press Brick Co.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.  
North Star Varnish Co.....Minneapolis, Minn.  
Twin City Varnish Co.....St. Paul, Minn.

## VALVES.

Crane Co.....Minneapolis, Minn.  
Crane & Orday.....St. Paul, Minn.

Mechanical Specialty Co.....St. Paul, Minn.

## VENTILATING SYSTEMS.

Arex Company.....Chicago, Ill.  
Hackney Ventilating Co.....Minneapolis, Minn.  
J. C. Kerchen.....Chicago, Ill.  
G. A. Turner.....Minneapolis, Minn.

## WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

## WATERPROOFING.

General Western Material Co.....Waterloo, Ia.  
Gardner Hardware Co.....Minneapolis, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....  
.....Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co.....St. Paul, Minn.  
W. S. Nott Company.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## WATER TOWERS, STEEL.

American Bridge Co.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....  
.....Des Moines, Iowa

Minneapolis Steel & Machinery Co.....  
.....St. Paul, Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## WATER WORKS EQUIPMENT.

Waterous Engine Works Co.....St. Paul, Minn.

## WHEELBARROWS.

Sterling Wheelbarrow Co.....Milwaukee, Wis.  
Raymer Hardware Co.....St. Paul, Minn.

## WIRE AND IRON WORKS.

Builders Iron Works.....  
.....Minneapolis and St. Paul, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa

Midway Ornamental Iron Works.....  
.....St. Paul, Minn.

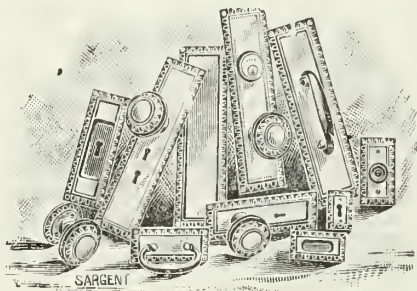


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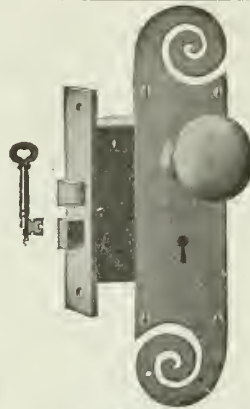
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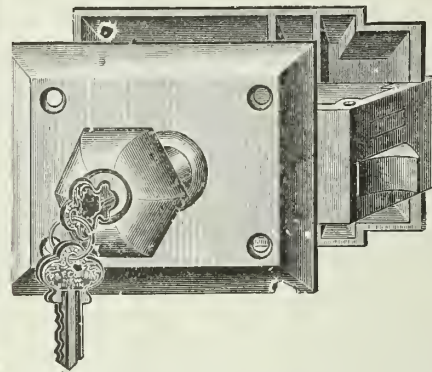
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, MARCH 6, 1915

NUMBER 14



## EDITORIAL



O. L. COLBURN, Editor

### ARCHITECTS AND FACTORY BUILDINGS.

It is the duty of architectural publications to advance the cause of beauty, for that is the stimulus of the artists in the profession. But when this aesthetic enthusiasm carries a writer so far as to urge beauty for manufactories, warehouses, and elevators he would better be careful. It is time for him to summon Common Sense and grasp his hand firmly before proceeding further.

Something may be done to relieve excessive plainness of factory buildings. There is a quiet dignity about many old stone and brick mills, some overrun with vines, which we have seen, most of them in the east. Reasonable effort was made to keep the grounds about grassy and attractive. The structures looked as comfortable as factories may, and had all the relief necessary from the appearance which would have indicated nothing but rigid, hard thought of work and profit. Further adornment would have been misplaced.

Factory sections of cities, where plain, box-like, structures of steel and glass are packed in together produce an effect of a sad monotony. They show the other extreme of thought about ornamentation of factory building. But sad as they are they do not appeal for such a rescue as that of Greek pillars, ornamental towers, rich cornices, terra cotta elaboration, or Moorish entrances.

### NEW BUILDING CODE FOR BAY STATE.

The commission investigating building laws and conditions in Massachusetts has filed its report. The commission was appointed by Governor Foss nearly two years ago. The commission has drafted a building law for the entire state, planned in such a way that it disturbs as little as possible existing conditions anywhere, and designed to be practical and workable. The proposed law brings up to date existing codes, classifies building and construction uniformly and

clearly, but leaves to local building inspection departments all, and in some cases more, responsibility for work within their jurisdiction than they have today. An important point in the present proposed law is that it is a minimum law and any city or town may exceed its requirements in any matters it would usually care to regulate.

### NOTES OF THE WEEK.

Secretary A. V. Williams of the Minnesota Manufacturers Association and the St. Paul Builders' Exchange, in watching the bills introduced by Minnesota legislators during the present session, has discovered several which are curious. One of them was a bill to prevent the discharge of an employe without notice in writing as long in advance as the time between pay days: if monthly pay days, 30 days' notice; if weekly, a week's notice. The bill also aimed to compel the employe to give the same notice of quitting. It was shown that if a man happened to be temporarily employed, and pay days were two weeks or a month apart, and he had a chance to get steady work by quitting at once, on agreement with his employer, he would be restrained by law from making use of the opportunity, under penalty of \$50 fine. Introduced by a man friendly to labor interests, it seemed when this possibility was shown, to be less desirable than anticipated.

Percy H. Wilson, secretary, Association of American Portland Cement Manufacturers, Philadelphia, reviewed in a recent address the present state of concrete road construction. He said in 1914 over 15,000,000 square yards of concrete paving and roadways had been laid or more than in all previous years combined. The figures in 1909 were something over 1,000,000 square yards. Regarding the future he urged greater care in the selection of material.

The practice of architecture is regulated by law in New Jersey, California, Colorado, Utah, Illinois, Louisiana and Manitoba, Canada. A regulatory bill will be introduced into the New York assembly this winter. A bill in the Minnesota legislature this session is a possibility.

## To Get More Out of Construction Reports

To get your money's worth out of construction reports, you must use what you pay for. In the first place, look them over in the morning when you are fresh, alert and able to see chances for getting new business. Do not leave them till the last thing at night when you are tired and things look blue. Next, if you have an assistant or stenographer, show her how to use the reports by going over them with her for a few minutes each day yourself and picking out the names and addresses of people who might be your good customers. Then have at least two form letters ready to be sent out to these names. Tell your assistant how to send them out and when, so that if you are taken sick your business will go on till you get back.

One large firm finds two letters enough to land or lose a prospect; the first offers him a catalog or other inducement; the second or last, mailed ten days later, requests an answer to the first letter and sometimes encloses a stamped envelope for reply. By sending out letters EVERY DAY, not every week or once a month, this firm secures 30 per cent of its new customers in this way.

It's easy to address two envelopes for each prospect, one for the first and one for the second letter, and it does away with the work of a card index, too.

But if it takes a long time to close your prospects, paste the items or names and addresses on cards. You can clip them from the sheets which are printed on one side only, especially for this purpose. Then, never let go of your pros-

pect till it is definitely and finally known to you that he cannot be made your customer.

Fifteen minutes a day, if put in **Every Day**, will enable you to go over the reports carefully and pick out the best prospects. Do not give up because you don't find anything worth while for four days in succession; the fifth day may bring you a lot of good names. Another thing: if you have another man in the office, have him look over the reports too. He may have information which will enable him to pick out a prospect that you knew nothing about.

The points to be remembered are: that a hundred letters cost much less than one railroad trip; that people are busy and often do not have the time to read your first letter while the second one will land them and that these methods are being used successfully by other people right now.

Experience and careful checking show that from 85 to 90 per cent of our reports are correct. If several of your letters are returned, write us a letter, explaining just what kind of news you want and from what territory you want it and very probably we will find some news which we could have sent you before, had we known you wanted it.

Personal visits and telephone calls are better than letters; make them at once. The other fellow may be on his way now to see the customer and the chances are that if you get there first, especially with your kind of goods, that you can secure the order.



### MINNEAPOLIS BUILDERS' EXCHANGE MONTHLY MEETING.

One of the largest gatherings of the season at the Minneapolis Builders' Exchange made the monthly meeting, Tuesday noon, in the remodeled exchange rooms a lively and interesting session. The state legislature is at work, and has on its list 132 bills, affecting more or less employers and the building trades. Heading the list is the bill for amendments to the compensation act. After giving the thorough and careful manner followed in deciding on the amendments, conferences having been held by representatives of employers and employees, it was stated that some employees objected and had sought to disregard the agreed list and opposed the adoption of the bill which will carry them into effect. But union labor, it was stated, had taken a stand at the conference and the hearing before the legislative committee, for a course of good faith in the matter; and this course was warmly commended at the builders' meeting. It was, "most gratifying, to see union labor standing pat against violation of agreement."

Another bill of interest to the exchange, was the Housing Code bill, originating with the Minneapolis Civic & Commerce Association. It was stated that the North bill prohibiting diversion of payments on one job to another, will probably become a law. This has been indorsed by the exchange. The Peterson bill, for a municipal building department in the hands of a city building commission, to plan and construct all the city structures in Minneapolis, aroused especial interest. President Schumacher after stating that the supporters of the bill regarded \$1,800 a year as sufficient salary for a city architect to plan any and all buildings, stated that this was a great mistake; that only competent and high-class architectural services should be accepted for the city's important buildings, and that it paid the city to have such services. The exchange took action opposing the bill.

W. K. Morison, of W. K. Morison & Co., hardware, invited the members of the exchange to call on him at the new store, 45 S. 7th st., Saturday, March 6th, when he will be at home to his friends. The occasion is his 60th birthday and formal opening of the store.

Messrs. Leck and Bailey were appointed conferees to act with Civic & Commerce Association committee, on industrial education.

### BUILDERS' EXCHANGE BOWLING LEAGUE.

Record of games up to this week: Lumber, won 36, lost 12, percentage, 750; Glass, 35, 13, 729; Hardware 33, 15, 667; Plumbers 28, 20, 583; Millwork 28, 20, 583; Boiler Manufacturing 25, 23, 521; Roofers 23, 25, 480; Lime, Cement 20, 28, 417; Bonds 17, 31, 354; Brick 15, 33, 313; General Contractors 14 34, 292; Building Specialties 14, 34, 292.

### BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file Feb. 27 at the Minneapolis Builders' Exchange: church, Detroit, Minn., Feb. 27; post office, Miles City, Mont., Feb. 27; poorhouse, electric wiring, Fairmont, Minn., Feb. 27; engine, generator, etc., Marshall, Minn., Mar. 1; addition, water works system, South Stillwater, Minn., Mar. 2; school Fargo, N. D., plumbing and wiring, Mar. 3; bank, Ambrose, N. D., Mar. 4; hotel, Maple Lake, Minn., Mar. 5; post office, Lawton, Okla., Mar. 6; school addition, Jamestown, N. D., Mar. 8; school addition, Jamestown, N. D., mechanical equipment, Mar. 8; school, Independence, Wis., Mar. 11; school, Max Bass, N. D., Mar. 19; school addition, St. Cloud, Minn., Mar. 22; school addition, St. Cloud, Minn., mechanical equipment, Mar. 22; post office, Des Moines, Iowa, Mar. 23; hospital, Minot, N. D.; apartment house, Minneapolis; remodeling residence, Mankato, Minn.; store, Minot, N. D.; armory, Madison, Minn.

Bids in: school, Lonetree, N. D., G. Schwartz, Rochester, (Iowa); bank, Emmons, Minn.; church, Bancroft, Iowa; school, Excelsior, Minn., Schulind & Co., Alexandria, Minn.

### CONCRETE SLABS FOR SCREENS AND PARTITIONS.

Reinforced concrete slabs for screens and partitions at the North Station of the Boston Elevated Railway are made of a 1:2:4 mixture of Portland cement, granite crusher dust and small granite screenings. The slabs are reinforced with Clinton wire cloth and round rods in both directions. Dowels, projecting at the sides and ends, are cemented into the adjacent slabs by a mortar filling. The slabs are cast flat, in a sand mould, and, when firmly set, the upper surface, which is flat, is highly polished; this gives a finish, it is stated, similar to the best granite or marble. The exterior face is treated architecturally with panels and mouldings and is left in the rough, as it comes from the form with a coating of sand.—Building Age.

### MORISON MOVES TO SEVENTH STREET. Widely Known Hardware House Locates in Its Own Building on Ground Leased for 100 Years.

For the second time in more than a quarter of a century, W. K. Morison & Co. hardware dealers, have moved. Deciding not to remain at 247-249 Nicollet, Mr. Morison secured a desirable and advantageous location at 15 S. 7th st., a few

doors east of Hennepin av. Making this location permanent, Mr. Morison bought the 3-story brick building and leased the land for 100 years. A lease on one of the two stores will not expire until next February. Then W. K. Morison and Co. will occupy the entire first floor and basement, 46x159x72. Here the store is having its formal opening today, March 6—a remarkable day for Mr. Morison. It is a triple anniversary. Sixty years ago his father, A. J. Morison, started in the hardware business in Belfast, Maine, to which he succeeded, continuing the same till he came to Minneapolis in 1888. Sixty years ago John S. Pillsbury started the hardware business on Main st. SE., as



W. K. Morison.

Pillsbury & Cross. The firm later moved to Bridge Square at 107 Nicollet. This business was traded for a flour mill—the foundation of the famous Pillsbury Mills. Janney, Sample & Co., succeeded to the hardware business and in 1888 the W. K. Morison & Co., corporation was formed, taking over the retail end. March 6 is Mr. Morison's 60th birthday.

The Morison hardware establishment has existed under the same ownership for twenty-seven years—twelve years at 107 Nicollet av. and fifteen years at 247 Nicollet av. Among the many big buildings supplied with hardware by Morison & Co. on contract, when built are: Guaranty Loan (Metropolitan Life), court house and city hall, Temple Court, Art Mureaum, New Postoffice, and the First National Bank-Soo Line building. The Morison bids on the municipal building and on the Soo building were the highest, yet were accepted.

In the new store there will be two and a half times the selling space on the main floor that there was at 247 Nicollet, and later new departments will be added. The plan of the interior of the new store is attractive. It gives convenience and makes great use of all space offered. The private office of Mr. Morison is cosy and artistic, with its fan light over his desk, beamed ceiling, fireplace, graceful finish, and its objects of art, including gargoyles from Europe and a brass knocker on the door.

Page advertisements in the daily papers will announce the firm's new store, and show the numerous standard lines of national fame with which the firm has long been identified. Builders and contractors have made Morison's a favored store for many years.

Their specialties are Yale Locks and Hardware; and they have recently taken over the celebrated Wright & Diston line of tennis, sporting and athletic goods—a very valuable connection.

### A DUTCH BUNGALOW.

One of the latest additions to the houses of the summer colony at Newport, R. I., is a Dutch bungalow of stone and brick pointed with a white cement and relieved with blue trimmings. The dining room of mammoth proportions is finished in Flemish effect. The drawing room in the front faces the ocean and is 60 feet long, 15 feet wide and 10 feet high. It is finished in redwood. The reception hall is finished in oak and the sun parlor facing the ocean is finished in cream white.

The sleeping rooms, each with its bath room, are in white enamel and are finished in the Dutch style. The upper part of the house is devoted to the servants' quarters of 15 rooms and four bath rooms.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

The Panama edition of The Contractor's Atlas, published by the Atlas Portland Cement Co., is handsome, interesting and instructive. It is devoted to the Panama Canal.

Patton's Monthly says window glass manufacturers sold enough in February to keep their plants busy sixty days at least.

When a man is called a brick it is a compliment. It does not mean a lump of dried mud.

Iowa Master Plumbers elected John A. Thomas, Des Moines, president; S. S. Smith, Waterloo, secretary.

F. B. Wilcox, Cedar Falls, Iowa, J. F. Darrah and J. Stewart of Waterloo, will enlarge Cedar Falls foundry; brass and metal castings.

Senator J. D. Sullivan's bill, providing for the exclusive use of Minnesota-produced materials in the erection of all public buildings for the state or any buildings erected in part from state funds, was recommended to pass after a long debate in senate committee of the whole, by a vote of 41 to 14.

Articles of incorporation have been filed by the new Butler (Wis.) Electric Light Co.; capital stock, \$10,000; incorporators: J. L. Mullenbach, A. A. Mullenbach and Albert Peterman.

### ST. PAUL BUILDERS' BOWLING RECORD.

Builders' Exchange bowling league—score March 1: Steel and Iron, 828, 840, 882, won 2, lost 1; Lumber men, 836, 824, 803, 1, 2; Plumbers and Steamfitters, 951, 851, 783, 1, 2; Contractors, 898, 921, 933, 2, 1; Bond, 861, 901, 88, 1, 2; Hardware, 892, 940, 876, 2, 1; Sheet Metal, 871, 898, 908, 2, 1; Brick, Stone, Cement, 845, 993, 824, 1, 2.

Standing: Brick, Stone Cement—won 46, lost 26, percentage 640; Plumbers and Steamfitters—46, 26, 640; Bond—42, 30, 588; Steel and Iron—35, 37, 490; Contractor—33, 39, 462; Lumbermen—32, 40, 448; Sheet Metal—30, 42, 420; Hardware—24, 48, 336.

Team high score, 3 games: Steel and Iron—2638; team high score, 1 game: Steel and Iron—966; individual high score, three games: Geo. Cook—661; individual high score, one game: J. Shiely—258. Next game, March 8; O'Brien's: Hardware vs. Lumber; Plumbing vs. Bond. Pfister's: Steel and Iron vs. Cement, Stone, Brick; Sheet Metal vs. Contractors.

Z. D. Scott of the Scott-Graff Co., Duluth, lumber dealers, visited Twin Cities this week.

Minnesota Clay Works, Minneapolis, has been incorporated by Nels P. Ostrum, Ernest W. Thorsen, 1428 Spruce pl., H. Alfred Sodergren, 18 Western av., all of Minneapolis, to manufacture sewer pipe, building blocks, fireproofing and other products.

Articles of association and incorporation have been filed at Madison by the Mielke Construction Co., Appleton, Wis., capital stock \$2,000; incorporators: Wm. H. Mielke, George Bodway and John Ahrens. The firm will do construction and contract work.

A builders' club has been organized in the Duluth Builders' Exchange, as a social club, with R. M. Weaver, president, M. A. Thompson, vice president, L. F. Sharpless, secretary, and H. Crassweiler, treasurer. A building material sample or exhibit room may be established at the exchange.

A. C. Brown, contractor, Spirit Lake, Iowa, is now in business by himself, succeeding the firm of Nichols & Brown. Mr. Brown continues in the business at Panora, Iowa.

The Western Plumbing & Heating Co. has been formed at Jamestown, N. D., by J. E. Anderson, L. McDowell and Thos. J. Galvin.

The Iowa State Drainage Association elected officers for 1915, president, H. M. Sparboe, Webster City; vice president, J. W. Boyer, Fort Dodge; secretary, M. F. P. Castello of Ames. This makes the fourth term for Mr. Sparboe as president.

The building construction undertaken in Sioux Falls during the month of February totalled \$25,250, according to the report submitted by City Building Inspector T. C. Marson. The report gives the following items: G. Aldallah, barn, \$50; E. M. Sanders, brick store, \$5,000; J. M. Freeze, building, alterations, \$12,000; Addie Dalton, house, \$700; A. N. Sundberg, house, \$2,300; Cora Storey, addition to house, \$500; O. O. White, house, \$2,500; John P. Bleeg, house, \$600; John

P. Bleeg, house, \$600; John P. Bleeg, house, \$1,000; total \$25,250.

Willard & Jasmine, manufacturers of electrical devices and specialties, Minneapolis, Minn., have determined upon Chippewa Falls, Wis., as a permanent location and will organize the Chippewa-Willard Manufacturing Co., capital stock \$25,000. The Hanson building has been leased for a factory.

A. E. Holcomb, manager of the Chicago office of the Clyde Iron Works, has resigned, effective March 1. Mr. Holcomb has purchased an interest in the C. W. Rood Construction Co. and the Rood Manufacturing Co., of Grand Rapids, Wis., and will become general manager of both of those companies.

M. C. Madsen, Hutchinson, president of the N. W. Clay Association, last year, has been succeeded in his contracting business by Madsen & Peterson, of which his son is senior member. In the brick and tile business Mr. Madsen will have with him his sons Walter and George. The brick and tile plant capacity will be increased.

The building ordinances of the city gathered into a booklet and corrected up-to-date will be published by the city building department, and are expected to be ready in 30 days.

Wisconsin railroad commission has issued a decision that electric companies must have safety devices for property and persons.

City officials, architects, contractors and plumbers of Billings, Mont., are conferring on a new building ordinance.

Madison, Wis., citizens gave a banquet in honor of "the man who built the 9-story building," in Madison, Leonard Gay.

Ditches and roads extending 292 miles are to be under construction in the Baudette, Minn. district, this summer. The cost will be about \$550,000 exclusive of bridges and culverts. These for one ditch, 28, will cost \$23,000. The grand total outlay for these improvements will be over \$600,000.

J. G. Houghton, Minneapolis building inspector, will attend of meeting of municipal building inspectors in New York, May 14. Standardizing and defining the principles governing the drafting of building codes will be the work undertaken.

Neil & Co., Inc., of Superior, Wis., has been incorporated with a capital of \$25,000, to do a general electrical, plumbing and heating business.

J. C. Van Doorn, Northwestern sales agent of the Universal Portland Cement Co., of Minneapolis, brought a big delegation from the Twin Cities to the various conventions during the cement show. Van has always been a heavy worker in this line.—Rock Products (Chicago).

O. U. Miracle (a real name), president of the 2-Miracle Concrete Co. of Kalispell, Mont., visited the Twin Cities last week on his way home from a trip to New York, Florida, Cuba and the Panama canal. His wife accompanied him on the trip. He was on his way back to Great Falls. Mr. Miracle said he expected a good construction year in his district.

### ARCHITECTS AND ENGINEERS.

Superintendent W. C. Lundsburg of the Superior, Wis., water and light plant has made a report to the council of Two Rivers, Wis., for improved water service. He suggests a lake supply with filtration and urges immediate action.

An architectural competition for the Australian parliament house, on the site of the new federal capitol of Australia, has been announced. Designs must be delivered in London or in Australia by March 31, 1915. Prizes totaling 6,000 pounds sterling are offered, the first prize being 2,000 pounds. The judges are: Geo. T. Poole, of Australia; John James Burnet, of London and Glasgow; Victor Laloux, of Paris; Otto Wagner of Vienna; Louis H. Sullivan, an American architect with offices in the Auditorium Tower, Chicago, Ill.

Dr. B. L. Newkirk, assistant professor of mathematics and mechanics of the college of engineering, gave a lecture on the gyroscope before the university high school in the auditorium of the Education building at the university March 1. The lecture demonstrated with many interesting experiments the unique actions of the gyroscope.

Prof. C. F. Shoop of the experimental engineering department of the college of engineering of the university of Minnesota, read a paper before the Minnesota Society of Engineers and Surveyors in St. Paul on the abrasion value of various concrete aggregates in concrete roads.



H. L. Liebert, architect, Wausau, Wis., has completed plans for the Carnegie library at Ripley, Ohio.

Plans for a new apartment building in Milwaukee call for a lighted fountain in the court, which will be 50 feet wide.

Mayor Prince of Duluth, Carl E. Nystrom, A. Holstead and others spoke at the dinner by the Duluth Architects association to the contractors and material men. Mr. Holstead is president of the association.

A. F. Meyer, engineer for the Boundary commission and professor of hydraulics at the Minnesota university, has gone to Toronto to consult with the Canadian engineer of the commission.

A report from Billings states that the H. W. Johns-Manville Co. may start a branch there.

St. Paul engineers are preparing for an unusually interesting meet of their organization, the St. Paul Society of Engineers, at the Old Capitol, next Monday evening, March 8. W. C. Armstrong, engineer in charge of the new Union station, St. Paul, will give an illustrated talk on, Removal of a Railroad Bridge Under Traffic.

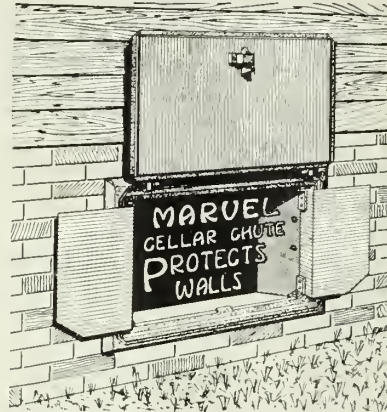
Kirby T. Snyder, architect, Minneapolis, has removed to larger quarters at 643-45 Plymouth building, where he will have a much better drafting room.

Jacobson & Ackerman, consulting engineers, McKnight building, have dissolved partnership. Mr. Ackerman will be associated with Gardiner S. Williams of Ann Arbor, Mich., opening a Chicago office. Mr. Jacobson will continue in practice here probably.

S. A. Wager, architect, St. Paul, has removed from the Commerce building to 1012 Germania Life building, where he has improved offices.

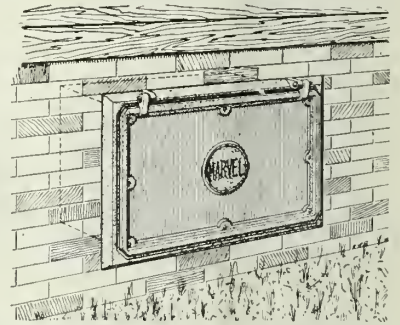
A schedule of minimum charges fixing the value of full professional services, with supervision of construction, at not less than 6 per cent of the final cost of the work, was adopted by the seventh annual convention of the North Dakota Society of Engineers at Minot. For surveys and similar work a minimum charge of \$10 per day with necessary expenses was fixed. It was decided not to push the plan recommended with out success last year to the state legislature for licensing land surveyors.—Engineering Record.

#### NEW PATTERNS OF CELLAR CHUTES.



The makers of the MARVEL cellar chute have just completed their new patterns, and the re-designed MARVEL window chute is now available. This chute is built on the theory that the object of a window chute is not to furnish make-shift assistance to the coal heaver, but rather to protect the building in which it is built. For this reason, the MARVEL has two wings which swing out against the wall on each side and a door which opens up and

protects the siding above the foundation. These wings fold in and when the door swings down into place it locks automatically, and can be opened only from the inside, and if desired can be equipped with a chain and pulley for operating the latch. The Interstate Manufacturing Co., Oskaloosa, Iowa, who make this cellar chute, will be glad to give architects or others any information they may wish.



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## Wheaton's Experience with Tarvia—

Wheaton Avenue, looking west  
from Franklin Street,  
Wheaton, Ill.  
"Tarvia X"—Constructed 1912.

ONE of the many towns which are using Tarvia on a vast scale is Wheaton, Ill., which has built several miles of "Tarvia X" construction, and also has used "Tarvia B" (a lighter form of Tarvia) for the prevention of dust on many of its other roads.

"Tarvia X" is a very dense, viscid, heavy coal tar product. It is used as a binder in the lower courses of a macadam road and has sufficient viscosity and strength to bridge the large voids in the foundations, thus enclosing the stone in a tough, plastic matrix, from which traffic can never dislodge it.

When a heavy load passes over an ordinary macadam road it sets up a certain amount of internal friction, where the stones in the lower courses grind and press against each other, and a certain amount of pulverization and disintegration results within the road itself.

In a road bonded with "Tarvia X", however, this internal attrition which forms such a serious problem for road engineers disappears entirely, and the result of the passage of an extremely heavy load is almost imperceptible. For preventing dust and preserving the surface of ordinary macadam roads "Tarvia B" is used in Wheaton. The city engineer of Wheaton writes:

"We have 23,000 yards of 'Tarvia X' construction. This type of pavement is ideal for residential sections, it being an enduring, lasting, and cheap pavement. Wheaton has also used 'Tarvia B' to a great extent for dust prevention. We find that the 'Tarvia B' preserves the road and keeps it in a dry, clean condition, all four seasons of the year.

Yours very truly,  
J. RUDDOCK, City Engineer."

*Booklet about the treatment on request.*

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# PROPOSAL ADVERTISING FOR BIDS

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## Proposal Index

Bids Close		See Imp. Bulletin Dated
Mar. 8.	School, Jamestown, N. D.	Feb. 13
	Minn.	Feb. 13
Mar. 8.	School, Jamestown, N. D.	Feb. 13
Mar. 10.	School, Millersburg, Iowa.	Feb. 27
Mar. 10.	Sewer, Mason City, Ia.	Feb. 20
Mar. 11.	School, Independence, Wis.	Feb. 27
Mar. 13.	Mechanical Equip., High	
	School, Excelsior, Minn.	Mar. 6
Mar. 13.	Ditch 2, Owatonna, Minn.	Feb. 20
Mar. 15.	Creamery, Wendell, Minn.	Feb. 20
Mar. 18.	Hospital, York, Neb.	Feb. 27
Mar. 19.	School, Maxbass, N. D.	Feb. 13
Mar. 20.	Library, Graceville, Minn.	Mar. 6
Mar. 22.	Ventilating and Pl., St.	
	Cloud, Minn.	Feb. 27
Mar. 23.	Rural highway, Winona,	
	Minn.	Feb. 27
Mar. 23.	Theater and Store, Lu-	
	verne, Minn.	Mar. 6
Mar. 30.	Ind. School, Pierre, S. D.	Mar. 6
April 7.	Bridges, New Hampton,	
	Iowa	Mar. 6
Mar. 16.	Elec. Light Plant, Win-	
	dom, Minn.	Mar. 6

### STEEL, ROOFING, ETC.

Power House, State Reformatory,  
St. Cloud, Minn.

Sealed proposals will be received by the State Board of Control, in their office in the State Capitol Building, at St. Paul, Minnesota, until 2:00 P M, March 23, 1915, for the structural steel and cast iron work, steel sash and roofing and sheet metal work, required for Power House, State Reformatory, St. Cloud, Minn., in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to Minnesota State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at Builders' Exchange at St. Paul, Minneapolis, and Duluth, Minn., at the office of the Board of Control, and at the office of the Superintendent of the Institution, St. Cloud, Minn.

Extra copies of the plans and specification may be obtained on application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

(Continued on page 14.)

## PROFESSIONAL DIRECTORY

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Storm-proof—Economical—No  
Movable parts.

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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.  
Phones: N. W. 3902. T-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

Gateway Holding Co., 227-229 Nicollet av., alterations change store into stores (4); G. W. Smith, builder; address owner	1,500
O. G. Orvold, 4834 33d av. S., 1-story frame dwl.; address owner, 3304 23d av. S.	1,000
Henry Proehl, 2015 Dupont av., 2-story frame dwl.; address owner, 2015 Dupont av. N.	2,200
Maurice Schumacher, 7, 9 and 11 W. Grant st., interior alterations; address owner, 39 Dell place.	6,500
W. M. Tinker, 4808 S. Aldrich av., 2-story plaster veneer dwl.; S. B. Appleton, builder; address owner, 3030 Grand av.	3,700
American Const. Co., owners and builders, 3228 N. Sheridan, 1-story frame dwl.; address owner, 302 Andrus bldg.	1,050
Kelly & McKusick, 1213-15-17-19 Mary place, 3-story brick apartments (25); Irwin Goldstein, builder; address owner, 314-15 N. W. Bank.	35,000
Orace Tardiff, 4129 Garfield av., 2-story plaster veneer dwl.; P. H. Phillips, builder.	4,100
American Const. Co., owners and builders, 2418 Lowry av. N., 1-story frame dwl.; address owner, 302 Andrus bldg.	1,175
Clyde E. Pratt, 3706 Grand av., 2-story plaster veneer flats (4); address owner, 3544 Colfax av. S.	9,000
Clyde E. Pratt, 3714 Grand av., 2-story plaster veneer flats (4); address owner, 3544 Colfax av. S.	9,000
Mrs. Hattie Bentson, 3024 Hennepin av., 1-story brick store building; P. J. Sonner, builder; address owner, 2440 1st av. S.	3,000
Samuel Fleisher, 1920 3d av. S., 3-story brick apartments (19); Rose Const. Co., builders; address owner, 1215 Knox av. N.	35,000
United Church Hospital Association, 2312-26 S. 6th st., 4-story brick tile and reinforced concrete hospital; James H. Brown & Co., builders; address builders, 936 Lumber Exch.	75,000
C. J. E. Johnson and Herman Hanson, 2936-38 S. Emerson av., 1-story brick and reinforced concrete addition to creamery and store; address builder, 2936-38 S. Emerson.	6,000
Carl Johnson, 3908 14th av. S., 1½-story frame dwl.; P. G. Carlson, builder; address owner, 2316 28th av. S.	2,650
Albert Anderson, owner and builder, 3308 19th av. S., 2-story plaster veneer flats (4); address owner, 3321 21st av. S.	7,500
F. W. Gillies, 4147 Garfield av., 2-story plaster veneer dwl.; John A. Ecklund, builder; address owner, The Ogden.	5,600
F. W. Gillies, 4155 Garfield av., 2-story plaster veneer dwl.; John A. Ecklund, builder; address owner, The Ogden.	6,000
Mrs. Oluffa Bredeson, 2655 Cedar av., 2-story plaster veneer duplex; address owner.	3,500
Johan P. Lindstrom and Peter G. Ronneberg, 4836 Xerxes av. S., 1-story plaster veneer dwl.; address owner, 3218 Aldrich av. N.	3,500
C. H. Heu De Bourck, owner and builder, 4841 Garfield av., 1½-story plaster veneer dwl.; address owner, 4021 Lyndale av. S.	4,200
C. H. Heu De Bourck, owner and builder, 4143 Garfield av., 2-story plaster veneer dwl.; address owner, 4021 Lyndale av. S.	4,400
C. H. Heu De Bourck, owner and builder, 4024 Harriet av., 1-story plaster veneer dwl.; address owner, 4021 Lyndale av. S.	3,250
J. S. Norman, 1311-17 E. Franklin av., 1-story brick addition to store; contract not let; address owner, 1718 11th av. S.	2,300
Zion Baptist Church, 559 7th av. N., alterations and repairs, concrete foundation under church, also alterations; address owner, 403 6th av. N.	3,500
F. W. Finke, 1502 Spruce place and 201 W. 15th st., 4-story brick and reinforced concrete apartments (27); address owner, 1807 Vine place.	35,000
C. H. Anderson, 3304 42d av. S., 1½-story frame dwl., also frame garage; address owner, 3214 Aldrich av. N.	2,075
Mrs. Minnie P. Cole, 1340 N. Logan av., 1½-story frame dwl.; address owner.	1,800
E. S. Swenson, 3458 Minnehaha av., 1-story brick store; address owner, 3464 Minnehaha av.	2,200
N. P. Ry. Co., 2½ st. and 32d av. NE., frame addition to icehouse; address owner.	3,000
N. W. General Agency Co., 713-19 3d av. S., alterations and minor repairs; Am. Realty & Bldg. Co., builders; address builders, 211 West Lake.	2,100
Third Universalist Society, 27th st. and Blaisdell av., 2-story brick addition to Tuttle Universalist Church; J. A. Benson, builder, 2534 Dupont av.; address builder, 2534 Dupont av.	15,000
B. F. Nelson Mfg. Co., 400 Marshall st. NE., stone and reinforced concrete coal bins, alterations to boiler room; H. N. Leighton Co., builders; address owner, 1125 SE. 5th.	2,000
Samuel Fleisher, 1926 3d av. S., 3-story brick apartments (19); Fleisher-Rose Const. Co., builders; address owner, 1215 Knox av. N.	35,000
J. M. Baltuff Bldg. Co., owners and builders, 3336 S. Girard av., 1-story frame dwl.; address owners, 244 Security Bank bldg.	1,950
John Erickson, 4133 N. Washington av., 1-story plaster	

veneer addition to moving picture theater; address owner, 1534 NE. Washington.	1,000
M. V. Baker, 3039 32d av. S., 1-story frame dwl.; A. L. Hanson, builder; address owner, 1025 3d av. S.	1,900
Mrs. Thomas Lilly, 708 S. 9th st., 3-story brick apartments (31); contract not let; address owner, 907 8th av. S.	37,500
H. H. Placke, 1809 2d av. S., 3-story brick apartments (19); Fleisher-Rose Const. Co., builders; address owner, 902 Andrus bldg.	35,000
Mrs. Emily M. Erickson, 4722 S. Bryant av., 2-story plaster veneer dwl.; Fred Anderson, builder; address owner, 619 20th av. S.	4,500
John Berset, 4839 33d av. S., 1-story plaster veneer dwl.; contract not let; address owner, 4843 33d av. S.	1,200
Fred D. Storms, 3419 N. Girard av., 1-story frame dwl.; address owner.	2,000
Ole Hildahl, 4334 1st av. S., 1-story frame dwl.; address owner, 4749 Blaisdell av.	1,800
Walter H. S. Mack, 3836 2d av. S., 1-story plaster veneer dwl.; Walter H. S. Mack, builder; address owner, 3954 2d av. S.	2,200
C. I. Fuller, 3601 34th av. S., 1-story frame dwl.; F. D. Baker, builder; address owner, 738 McKnight building.	1,500

A railroad company, capital \$1,000,000 has been incorporated by W. H. Graves, Banner Grain Co., 906 Chamber of Commerce; C. M. Drew, attorney, 510 New York Life building; C. R. A. Hamilton, Milwaukee, Wis.; under the laws of Minnesota; name, Red River Valley Railway Co.; to construct, maintain and operate a railroad and railroad system, from the city of Fargo, in the county of Cass, and state of North Dakota, to a point, to be hereafter located, on the northerly boundary of the state of Minnesota, in the county of Kittson, in said state of Minnesota, thence north to the city of Winnipeg, Man., Can., together with all appurtenances necessary or convenient thereto; and to do and carry on upon the same the business of a common carrier of freight, mail, express and passengers: for such purposes to acquire, all land, real estate, for right-of-way, station or depot grounds, yards, shops, warehouses, elevators, plants, terminal facilities; to operate said railroad by steam, electric or other mechanical power.

Further preparations for a 10-story building to cover all the ground now occupied by the general offices of the Northwestern Telephone company at Third av. and Fifth st. S., are indicated by the permit taken out by the company for the erection of columns and floor, at street level, capable of carrying a 10-story structure. C. E. Yost, president of the company, recently announced in Omaha the intention of the company to spend a large sum in improvement work in the northwest, a considerable portion of it in Minneapolis.

Sealed bids will be received by county auditor until Monday, March 15th, 1915, at 11 o'clock a. m., at which time the said bids will be opened by the board of county commissioners of Hennepin county, for removing old bridge No. 339 and erecting a new bridge complete in place over county ditch No. 10, road No. 83, being contract No. 5, according to plans and specifications on file in the office of the county surveyor.

\*The Hickok Construction Co., 619 Flour Exchange, has plans nearly complete for a reinforced concrete elevator of 25,000 bushels capacity to be erected for the Furen Cereal Co., at their cereal mill in West Minneapolis at Glenwood Spring, adjacent to the Electric Short Line (Luce line). This building comprises a working story with bins all overhead and a full basement. The equipment includes elevator legs, automatic scales, grain cleaning machines, rolls, power shovels, manlift and electric motor.

\*Ernest Kennedy, architect, Essex building, has completed plans for modern residence, Coney Island, Wauconia, Minn., for J. R. Ferris, proprietor, National Hotel, Minneapolis: 46x6x44, frame stucco, two stories, concrete foundation, hot air heat, shingle roof, two baths brick mantel, tile mantel, laundry, sleeping porches, beamed ceiling, French doors and windows.

\*C. E. Bell, architect, Security building, was selected this week to prepare the plans for the new court house at Moulbank, Grant county, S. D. It will cost about \$100,000.

Chas. R. Rank, 3037 Dupont S. and friends will build ten cottages at Long Lake, near Bemidji, Minn.; 50 cottages will be built in Bemidji suburbs; also cafe at Wayville, a Bemidji suburb; J. J. Osphal, manager, Red Lake Northern Improvement Co., Bemidji.

S. J. Bowler, architect, Boston block, has furnished plans for a large modern flat building of 55 apartments, on Summit and Hennepin; brick, 3-story, stone foundation, steam heat, gas stoves and refrigerators, kitchenettes, some tile floors,

(Continued on page 17.)



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT  
ASSETS \$3,514,125.50  
Both Phones 622

The Hood & Matschke Co.  
GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.  
ASSETS \$4,882,371.79  
MINNEAPOLIS, MINNESOTA

### Brick of Quality.

#### Dickinson Brick

ALL KINDS

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DICKINSON Fire and Pressed BRICK CO.

Dickinson, N. D.

#### RUFUS P. MORTON

Manufacturer of

CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
Correspondence Solicited.

#### NOTICE TO DITCH CONTRACTORS.

Owatonna, Minn.

Sealed proposals will be received by the County Auditor of Steele County, Minnesota, at his office in the Court House, in the City of Owatonna, until two o'clock, P. M., Saturday, March 13, 1915, for the construction of Judicial Ditch No. 2, in said Steele County, Minnesota.

The work to be let consists of the excavation of a main ditch, three lateral and three branch ditches, containing in all 240,447 cubic yards of excavation.

Also the furnishing and installing of 30 corrugated metal culverts and constructing one highway bridge. The estimated cost of all said work and material and the estimated cost of said ditch is the sum of \$30,000. Plans and specifications may be seen at the office of the County Auditor of Steele County and at the office of George A. Ralph, Engineer in charge, 410 Shubert Building, St. Paul, Minnesota. Bids will be received for said work and material as one job,

also on any one or more sections or parts thereof.

Bids must be made on blank forms which will be furnished by the Engineer. Each bid must be accompanied by a certified check for ten per cent of the amount bid, made payable to the County Auditor of Steele County, as a guarantee of the good faith of the bidder.

The right is reserved to reject any or all bids.

Dated at Owatonna, Minnesota, February 17th, 1915.

GEORGE A. RALPH,  
Engineer in Charge.  
M. J. PARCHER,  
County Auditor.

#### BRIDGES.

New Hampton, Iowa.

1. Sealed bids will be received at the office of the County Auditor, New Hampton, Iowa, until 1:30 o'clock, P. M., April 7, 1915, for Five Steel Truss Bridges and Structural Steel for Ten I-Beam Bridges, plans and specifications for which may be seen at the above office.

2. A certified check for five per cent (5%) of bid, made payable to P. E. McGinn, County Auditor, shall be filed with each bid, which, in the case of the bidder (or bidders) receiving the award, should he fail to execute a contract and file a bond within ten (10) days after the acceptance of his bid, shall be forfeited to the county as liquidated damages.

3. All bids must be on the regular form furnished by the County, sealed and plainly marked.

4. The successful bidder will be required to furnish a bond for 50 per cent of contract, issued by responsible surety, approved by the Board, and drawn to protect the County and any subcontractor.

5. The county reserves the right to waive defects and to reject any or all bids.

P. E. MCGINN,  
County Auditor, New Hampton, Ia.

#### BIDS SOLICITED.

Rural Highways, Winona, Minn.

NOTICE IS HEREBY GIVEN, That the County Auditor of Winona County, Minnesota, will receive sealed bids for the improvement and construction of

State Rural Highways, numbers 85, 86, 87, 88, 89, 90, 91, 95 and 96 in Winona County, Minnesota, in accordance with Plans and Specifications therefor on file in the office of the County Auditor, and subject to the approval of the engineer of the State Highway Commission and County Auditor. Separate bids for the improvement of each of said roads must be submitted.

A separate contract for the improvement of each of said roads will be let to the lowest responsible bidder.

Such bids will be received at the office of the County Auditor of said Winona County in the Court House in the City of Winona, State of Minnesota, on the 23rd day of March, 1915, up to two o'clock P. M. No bid will be entertained which by more than thirty per cent exceeds the estimated cost of the construction and improvement of said roads respectively.

Each bid must be accompanied by a certified check upon a bank in Minnesota, and made payable to said County Auditor, in the sum of not less than ten per cent of the amount of the bid.

The right to reject any and all bids is reserved by said County Auditor.

A deposit of \$20.00 must accompany all requests for plans and specifications, which will be returned only to those presenting bona fide bids.

H. B. CHILDS,  
District Engineer,  
Winona, Minnesota.

(Continued on page 16.)

C E D A R  
E A  
D P  
A I  
R A P I D S  
A GOOD PLACE TO BUY  
CUT STONE  
The EDW EDINGER CO.  
Cedar Rapids, Ia.  
Estimates Furnished Free



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.



# Barrett Specification Roofs

## Investigate Roofing Claims!

**G**RAVEL and slag roofs laid along the lines of the Barrett Specification cover most of the first-class buildings of the country, because the experience of more than 60 years has proven that—

- 1st—They last longer than any other kind.
- 2nd—There is no painting, coating or similar maintenance cost.
- 3rd—Their unit cost per year of service is lower than any other.

Claims regarding roofings should be met with this question: "How many can you refer to who have used say 500 squares of your roofing on a comparatively flat surface for 10 years and bought more?"

*Then investigate such claims!*

We can supply hundreds of names for this purpose.

Exaggerated statements sometimes sell roofing, because the principles of Barrett Specifications Roofs are not well known to the purchaser. Once he understands the long service they give, and the low unit cost, he will have no other kind.

**Special Note:** We advise incorporating in plans the full wording of The Barrett Specification in order to avoid any misunderstanding. If any abbreviated form is desired, however, the following is suggested:  
**Roofing:**—Shall be a Barrett Specification Roof, laid as directed in printed Specification, revised August 15, 1911, using the materials specified and subject to the inspection requirement.

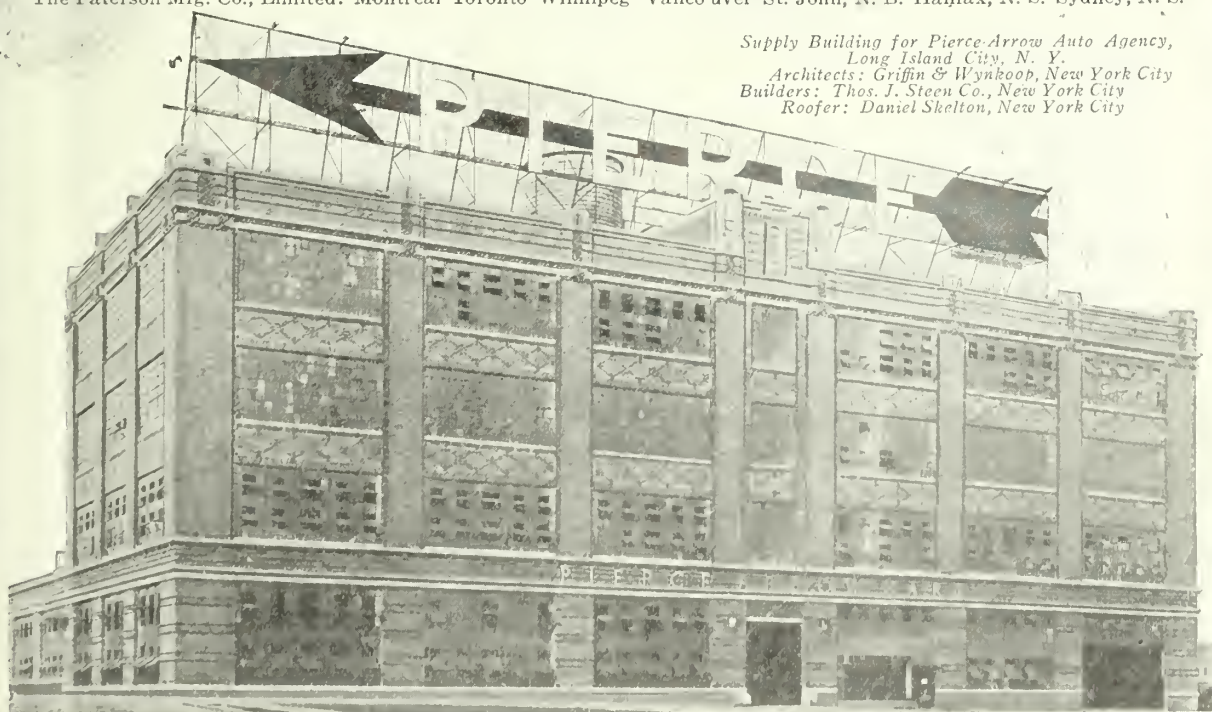
*Copies of The Barrett Specification free on request.*

### BARRETT MANUFACTURING COMPANY

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Pittsburgh Detroit Birmingham Kansas City Minneapolis Salt Lake City Seattle  
The Paterson Mfg. Co., Limited: Montreal Toronto Winnipeg Vancouver St. John, N. B. Halifax, N. S. Sydney, N. S.



*Supply Building for Pierce-Arrow Auto Agency,  
Long Island City, N. Y.  
Architects: Griffin & Wynkoop, New York City  
Builders: Thos. J. Steen Co., New York City  
Roofer: Daniel Skelton, New York City*





**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

### JOBS

Wanted—Enterprising experienced  
builders' hardware man of good appear-  
ance; one acquainted with architects and  
large builders in city; must be capable  
of making estimates correctly and solicit-  
ing for same; give reference and state  
age and salary wanted; address Box 750,  
Improvement Bulletin.

#### ROLLER WANTED.

Wanted—5- or 6-ton tandem roller. Ad-  
dress, C. F. LYTLE, Sioux City, Iowa.

#### DRAUGHTSMEN'S BLOUSES

**\$1.50** (ERENCH SMOCKS) **\$1.50**  
Sent prepaid on receipt of  
State Height and Weight  
E. Falkenhainer, 25 W. 42d St., New York

Capacity  
5 cubic feet  
per batch;  
35 to 50  
cubic yards  
per day  
without  
side loader.



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"The Mixer that Makes the Money"

Deserves your first consideration because it has proved its  
superiority with more of your brother contractors right in your  
own state, than any other. Ask us who and we'll put you in  
touch with them—then ask them why and they'll tell you it  
beats any mixer they ever used or heard about for quick, easy  
work and large dividends on investment.

Ten Day's Free Trial and Satisfaction  
or We Pay the Freight

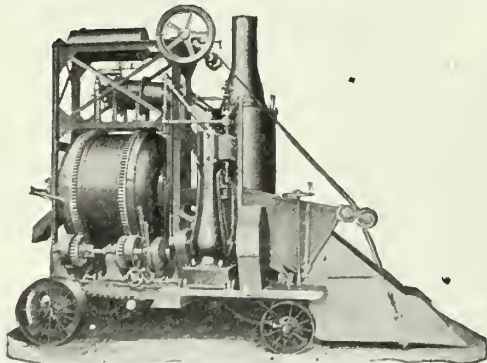
Waterloo Cement Machinery Corporation

220 Vinton Street, Waterloo, Iowa.

Hale Concrete Machinery Company

N. W. Agents, 1043 McKnight Building, Minneapolis, Minn.

## The Mixer that Proves It's Quality by It's Record



The Koehring Hot Mixer for Bituminous Pavements.

**H**OW much you must charge up to depreciation and  
repairs are as important questions in determining  
the real cost of a mixer as the initial expense.

How much of your labor cost is due to delays direct-  
ly traceable to the mixer is another important item to  
consider when comparing initial cost.

It's the Koehring Quality Mixer that proves its dollar-  
earning qualities by its record of continuous service  
and low cost of maintenance.

Catalogue 19, the most complete Mixer Catalogue,  
gives details.

**KOEHRING MACHINE COMPANY, Milwaukee, Wis.**

H. E. JONES, Dist. Mgr.

350 Security Bank Building

Minneapolis, Minn.

"CONCRETE FOR PERMANENCE"



## REASONABLY STRONG

The Panama Canal was  
built exclusively of Atlas  
Portland Cement. Over  
six million barrels used—  
not one barrel rejected.

Certainly a reasonably  
strong recommendation of  
absolute uniformity, mean-  
ing that you get identically  
the same high quality  
when you buy ATLAS.



## Minneapolis—(Continued from page 13.)

structural steel, garbage incinerators, laundry; excavation started; Friedman Brothers, 424 Hennepin av., owners.

Linstrom & Almars, architects, Auditorium block, have furnished plans for a modern apartment building, at 708 E. 9th, for Mrs. Thomas Lilly, 831 7th av. S., concrete foundation, brick, 3-story, 98x45, steam heat, laundry, composition roof, \$37,500; no general contract, work will be done by separate contracts or day labor.

Long, Lamoreaux & Long, architects, 830 Hennepin, will have plans ready in about a week for the additional story to the Parker garage, Harmon pl. and 10th st., 125x167, mill constructed floor, wiring, heating, composition roof and skylight.

Samuel Fleischer, 1920 3d av. S., has taken out permit for a modern flat building, at 1925 3d av. S., 45x100, 2-story, brick, concrete foundation, steam heat, 19 apartments, \$35,000; contract to Fleischer-Rose Construction Co., Plymouth building.

Bertrand & Chamberlin, architects, N. W. Bank building, will have plans completed in about 5 weeks, for the brick building, 12th and Marquette, to be occupied by the Nevins laundry; address owner, 611 Hennepin.

Long, Lamoreaux & Long, architects, 830 Hennepin, will have plans out for the mechanical equipment of the Sikes building, 9th av. S. and Washington, about April 1; plumbing, heating, wiring, elevator.

An excellent showing was made in February by the Minneapolis building permits which were nearly double those of February, 1914. Total valuation Feb. 1915, \$808,355; last year, Feb., \$498,005.

It is reported that the Power Engineering Co., Corn Exchange, has been selected as consulting engineer for a large hydro-electric development work in Eastern Wisconsin, to be done this year.

\*Chapman & Magney, architects, Essex building, will have plans ready in about a week for the Sumner branch library, 6th av. and Emerson N.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday

## Building Permits.

Christ Johnson, 308 Scandinavian American Bank building, 1½-story frame dwl., Euclid near Mendota; G. A. Mattson, builder	2,600
Christ Johnson, 1½-story frame dwl., Euclid near Mendota; G. A. Mattson, builder	2,600
E. M. Hartford, Pioneer building, 2-story frame and stucco dwl., Osceola near Milton; W. A. Best, builder	4,600
W. J. Murphy, 2-story brick store and flats, Grove near Temperance; John R. Schmidt, builder	5,500
Olaf Edwards, 808 Manomin, builder, 1½-story frame dwl., Manomin near Belmont	2,000
M. M. Rosenstein, 829 Portland, builder, 2-story brick dwl., Lexington near Lincoln	2,800
Chas. Pearson, 778 Rondo, builder, 1-story frame dwl., Rondo near Victoria	1,500
John Malkin, 303 Lowry annex, alterations and repairs to 2-story frame dwl., 254 Cathedral place	1,000
Jonas Smith, 1693 W. Minnehaha, 2-story frame dwl., Hewitt near Snelling; W. Axel Doran, builder	3,000
Anthony B. Casey, interior alterations to creamery, Franklin near Eagle; P. O. Nasvik, builder	1,200
Thomas Tobin, 145 E. 7th st., alterations and addition to brick store, 414 Jackson st.; Henry F. Thumert, builder	2,500
G. D. Keyes, 1149 Raymond, 2-story frame dwl., 1161 Grant-horn	3,500
People's Coal & Ice Co., builder, 1-story frame addition to barn, University near Pillsbury	1,000
P. W. Peterson, 569 Smith, builder, 1-story frame dwl., Manomin near Morton	2,300
Andrew Savage, 1979 Laurel, 1½-story frame dwl., 1979 Laurel; F. S. Nordeen, builder	2,000
H. L. Roberts, 737 Pelham, builder, 3-story concrete flats, Pelham near Myrtle	8,000
M. M. Rosenstein, 829 Portland, builder, 2-story frame and stucco dwl., Fairmont near Oxford	2,500
Julius Bjornstad, alterations and repairs to 2-story brick store building, W. 10th near St. Peter; B. F. Bjornstad, builder	5,000
C. A. Kregel, 894 Thomas, builder, 1-story frame dwl., Iglehart near Kent	3,200
George Hansa, 1-story frame dwl., Cherokee near Wyoming; John Humphrey, builder	2,400
F. W. Bock, 1½-story frame dwl., Juliet near Underwood; V. J. Sandell, builder	1,500
C. E. Swanson, 1450 Grand av., builder, 2-story frame dwl., Lincoln near Dunlap	3,000
Jacob Peterson, 567 Smith, builder, 1-story frame dwl., Delaware near Morton	2,500
Martin Peterson, 1½-story frame dwl., Beacon near University; O. A. Peterson, builder	2,600
Cyrus J. Jernegan, 1261 Van Buren, 1½-story frame dwl., Thomas near Pascal; W. E. Jernegan, builder	2,500
W. E. Jernegan, 1480 Lafond, builder, 1½-story frame dwl., Baldwin near St. Clair	2,500
W. E. Jernegan, builder, 1½-story frame dwl., Baldwin	

near St. Clair	2,500
W. E. Jernegan, builder, 1½-story frame dwl., Baldwin near St. Clair	2,650
McManus Estate, R. A. Walsh, agent, 1-story brick store, 445 Wabasha; Lauer Bros., builders	4,000
D. C. Lundberg, 1328 Arcade, 1½-story frame dwl., 1328 Arcade; N. J. Weimund, builder	2,500
Town and Country Club, 2-story frame clubhouse, Marshall near Cretin; Chas. Holyoke, architect; A. G. Erickson, builder	15,000
Edmund G. Walton, 148 Endicott, builder, 1½-story frame dwl., Victoria near 7th	1,500
S. S. Dittenhofer, interior alterations and repairs, 341 Jackson st.; E. Thummel, builder	2,000

E. L. Masqueray, architect, Endicott building, is taking figures on the church of the Redeemer, Marshall, Minn., until 5 p. m., March 15, brick and stone trim, concrete foundation, slate roof, tower, modern; bids in so far on the general contract for this church from: Otto Neitge, Mankato, O. H. Olson, Stillwater, Haglin Star Construction Co., Lumber Exchange, Minneapolis; Herman Jeub, 2027 Crystal Lake av., Minneapolis, S. W. Jones, Aberdeen, S. D., Anton Zwack, Dubuque, Iowa, Frank Jehn Co., Huron, S. D.

Hartford & Hausler, architects, Pioneer building, are preparing plans for a modern residence at St. Peter, Minn., for C. T. Weibezahn; brick, hollow tile, 32x29, 2-story, screened porches, sleeping porch, water lift, cistern, hot water heat, bath, three lavatories, fireplace, bookcases, French doors, coal chute, trays, shingle roof, cement walks and drives, concrete foundation; plans ready in a week, \$6,000.

Hartford & Hausler, architects, Pioneer building, are preparing plans for a modern residence for Senator Van Hoven, address care architect; brick, stucco, 2-story and basement, hot water heat, tile and marble bath, fireplace, laundry, glazed porch, sleeping porch, sun-room, asphalt shingles, French doors and windows, concrete foundation, coal chute; plans ready in two weeks.

Hartford & Hausler, architects, Pioneer building, have awarded the contract for the Bradley-Lefebvre building, 7th and 8th sts., to the General Construction Co., (Struchen) Commerce building; work to start at once, mechanical work to be let later, \$26,000; J. H. Druar, Commercial building, consulting engineer.

Alban & Lockhart, architects, will furnish plans for a Norwegian Lutheran church, Rev. Martin Anderson, pastor, Moorhead, Minn., brick, 114x50, tower, stone trim, steam heat, plumbing, two lavatories, finished basement, kitchen; total seating capacity 800; \$35,000.

Hartford & Hausler, architects, Pioneer building, have prepared plans for a factory building at Hampden and Bradford, Midway for N. Berg & Sons; brick, mill construction, 63x100, elevators, electrical work, general contract let to Lauer Brothers, foot of Chestnut.

Mark Fitzpatrick, architect, 19 W. 9th, has furnished plans for the store building for the McMannus heirs, on the site of old dwelling, Wabasha between 7th and 8th, 1-story, brick, plate glass front, plumbing, heating and wiring; general contract to Lauer Brothers.

Mark Fitzpatrick, architect, 19 W. 9th, has furnished plans for a studio building, to be used by a film exchange, on University av., 2-story, brick, modern, hot water heat, hardwood and cement floors, vault, to be let next week; Rath-Seavolt Co., owners.

Geo. A. Ralph, consulting engineer, Shubert building, has been engaged to prepare plans, specifications for judicial ditch 21, Roseau county, and will be ready for bids about June 1, all open work and road work, 15 bridges, 200 culverts; cost about \$100,000.

C. H. Johnston, architect will have plans for hospital addition (St. Luke's), 5-story and basement, 45x90, \$80,000, Smith av., ready about April 1; brick and hollow tile, stone, reinforced concrete, structural iron, metal skylight, galvanized iron cornice.

A. F. Gauger, architect, Scandinavian American Bank building, awarded contract to J. Hinderman, Fairfax, Minn., for Fairfax Lutheran church, plumbing, heating, later; plans ready for figures on E. W. LaGow residence, Sleepy Eye, Minn.

\*S. A. Wager, architect, 1012 Germania Life building, (not A. E. Swager, as erroneously stated last week) is furnishing the plans for the large modern residence of Dr. J. G. Phillips, at Northfield, Minn., and J. M. Murray at Faribault Minn.

H. A. Miller, arch., Pittsburgh bld., is completing plans for the St. Paul Lutheran church, Osseo, Minn., contract to be let March 13; also completing plans for a brick modern residence, Osseo, for Oscar John, to be let this month.

L. P. Wolff, consulting engineer, Germania Life building, has been engaged to prepare plans for a water works system at Bloomington, Wis., to cost \$12,000; M. F. Woodhouse, chairman, committee, Bloomington.

(Continued on page 23.)



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE

**HAAKINSON & BEATY CO., SIOUX CITY, IOWA**

ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS

### BIDS FOR SCHOOL BUILDING.

Independence, Wis.

Notice is hereby given that sealed proposals for the construction of a school building at Independence, Wis., to include all labor and material will be received by the Board of Education of the joint school district No. 6, of Independence and Burnside, Wis., at the city of Independence, Wis., until two (2) o'clock in the afternoon of the eleventh day of March, 1915. All bids must be in strict accordance with the plans and specifications for said building prepared by Olin H. Round, Architect, St. Paul, Minn. Plans may be seen at the following places, to wit: At the office of the Board of Education in the village of Independence, Wis., at the office of the Architect, 202 Oppenheim Bldg., St. Paul, Minn., and at the Builders' Exchange in the following places: St. Paul, Minneapolis and Milwaukee.

A certified check for five hundred dol-

lars \$(500.00) must accompany each bid. All checks of unsuccessful bidders will be returned to them within five days after the awarding of the contract. The successful bidder will be required to enter into contract satisfactory to the said Board of Education and to give a bond satisfactory to said board in the full amount of the contract price, which bond shall in all respects comply with the laws of the state of Wisconsin.

The right is reserved to reject any or all bids.

The Board of Education will also receive bids for heating and ventilating plumbing and electric wiring at the same time and place. Plans for this part of the work will be on file as mentioned above. A certified check for three hundred dollars (\$300.00) must accompany each bid for this part of the work. The right is reserved to reject any or all of these bids. A bond in the full amount of the contract to be furnished the same

as specified for general contract.

Contractors desiring copies of plans and specifications for personal use may obtain same upon application to the architect and upon depositing fifteen dollars (\$15.00) one half (½) of which will be retained by the architect, for cost of duplicating plans and specifications, and balance will be refunded if plans are returned not later than the date of opening bids.

Plans are now on file.

(Signed)

O. P. HUFF,  
President of Board,  
ANTON SENTRY,  
Treasurer of Board,  
DR. C. F. PETERSON,  
Clerk of Board.

Note:—If checks are forwarded for plans, etc., sign your acceptance of the conditions of this notice and return same with check.

Accepted.....1915.



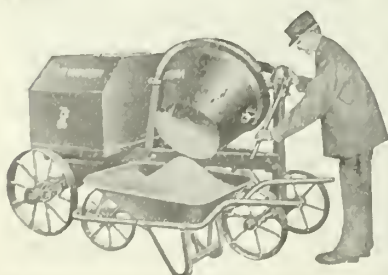
You can test this  
"NEW WAY" Concrete Mixer at your  
own work without  
the risk of a cent!

You'll find that it will do the work in about half the usual time.

It is built for speed, durability and economy. Note this again. Our machines are sold on ten days' free trial, and our guarantee protects you absolutely. It is worth investigating. Get Catalog E.

**E. Wege Concrete Machinery Co.**  
118 SOUTH SECOND ST. LA CROSSE, WIS.

## WINNER MIXERS



Are The Kind  
That Stand the  
Service Test

Ask us why

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**Cement Tile Machinery Co.**

554-58 PLYMOUTH BLDG.  
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## The *Atlas* Mixer



Furnished  
with  
Batch  
Hopper  
or  
Power  
loader.

5  
and  
11 foot  
Capacity

### It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

**Atlas Engineering Company**

MILWAUKEE, WIS.

1137-1138 Plymouth Bldg., Minneapolis, Minn.  
Telephones: Nicollet 5293. Center 2432.



**SCHOOL.****Millersburg, Iowa.**

Sealed proposals will be received March 10th, 1915, at 11 A. M., by the Independent School District of Millersburg, Iowa, for the erection of a 9-room school house.

All bids must be in strict accordance with plans and specifications prepared by Reimer & Berlin, Architects, Marshalltown, Iowa, which may be seen on and after Feb. 20th, 1915, at the office of the architects or at the Orville Hatter store at Millersburg. Plans may be obtained from the architects by a deposit of \$5.00 which will be returned when plans are returned to the architect in good condition. A certified check of \$300.00 must accompany each general bid, on heating \$100.00, plumbing \$100.00, lighting \$25.00.

The right is reserved to reject any or all bids.

G. E. JACK,

Secretary of the Independent School District, Millersburg, Ia.

**PROPOSALS FOR BRICK MESS HALL.** Department of the Interior, Office of Indian Affairs, Washington, D. C., Feb. 26, 1915, sealed proposals, plainly marked on the outside of the sealed envelope; "Proposals for Brick Mess Hall, Pierre School, South Dakota," and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until 2 o'clock p. m., Mar. 30, 1915, for furnishing materials and labor for the construction of a brick mess hall at the Pierre Indian School, Pierre, South Dakota, in strict accordance with the plans, specifications and instructions to bidders which may be examined at the Indian Office, the U. S.

Indian Warehouses at Chicago, Ill., St. Louis, Mo., and Omaha, Nebr., the Builders and Traders Exchange at St. Paul, Minn., at the school, and in the office of the newspaper in which this advertisement appears. For further information apply to the Superintendent of the Pierre Indian School, Pierre, South Dakota. Cato Sells, Commissioner.

**NOTICE TO CONTRACTORS.****Library, Graceville, Minn.**

The Library Board of the City of Graceville, Minn., will receive sealed bids until 6 o'clock, P. M., March 20, 1915, for the erection of a one-story and basement Carnegie Library building, according to the plans and specifications prepared by F. H. Ellerbe, Architect, St. Paul, Minn.

Proposals must be accompanied by a certified check in the sum of five per cent of the amount of the proposal as a guarantee of good faith.

Plans may be inspected at the offices of the Architect and the Secretary of the Library Board, and at the Builders' Exchanges in St. Paul and Minneapolis, Minn.

The Library Board reserves the right to accept or reject any or all proposals and to waive irregularities.

F. H. ELLERBE,  
692 Endicott Building,  
St. Paul, Minn.

**OPERA HOUSE.****Luverne, Minn.**

Sealed proposals will be received by Herman Jochims, at Luverne, Minn., until 2 p. m., March 23, 1915, for the general construction, heating and plumbing of an Opera House and Business building, as by plans and specifications by W. E. E. Greene, Architect, Luverne, Minn.

Plans will be on file March 8, at the Builders' Exchange St. Paul and at the office of the architect. A certified check for five hundred (\$500.00) shall accompany each bid for general construction, and one hundred (\$100.00) for each bid for plumbing or heating.

All bids shall be in strict accordance with condition of plans and specifications, and a deposit of \$10.00 will be required for the exclusive use of plans for a period of five days, and as a guaranty of their being returned.

All prospective bidders are requested to visit the building site and take note of the building to be wrecked, with the materials and walls to be used in reconstruction, together with the condition of housing of a tenant during the period of construction.

Until the date of letting, address the owner at Schleswig, Iowa.

HERMAN JOCHIMS.

**FOR SALE**

Twelve cubic foot Standard Mixer, equipped with folding platform, power pump and 125 feet 1½-inch hose for pumping own water, used less than two weeks, thoroughly overhauled and freshly painted, guaranteed to be in brand new condition, \$485.00 if taken at once for cash. Freight paid to any point within 100 miles. Write or wire PAUL N. KINGSLEY, Strawberry Point, Iowa.

(Continued on page 21.)

# The "Little Builder" —the Ball Bearing Concrete and Mortar Mixer

PRICE AS SHOWN

# \$165

There are bigger mixers than this, but none better. Dozens cost more without being worth more. If you want a mixer that will mix concrete and mortar better, quicker and cheaper than hand methods, that will last and does not necessitate a large expenditure, that will handle little or big jobs, that is convenient and efficient, then the **LITTLE BUILDER** will answer your every requirement.

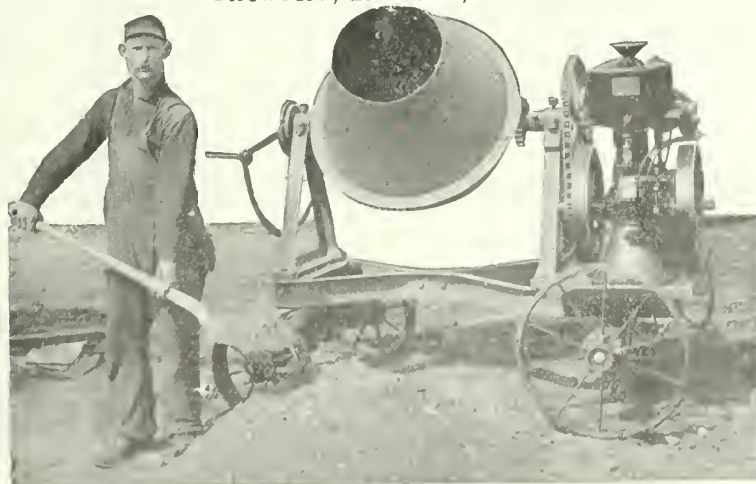
Built for the roughest, hardest service. Rugged and strong all through. Easy to haul.

And the price! Any one can afford it. \$165.00 as illustrated; \$265.00 with Power Loader; Hoisting Attachment for building purposes, \$30.00.

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Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

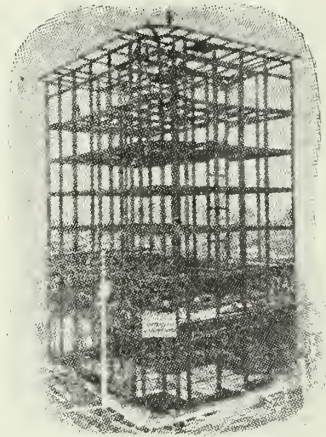
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Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.



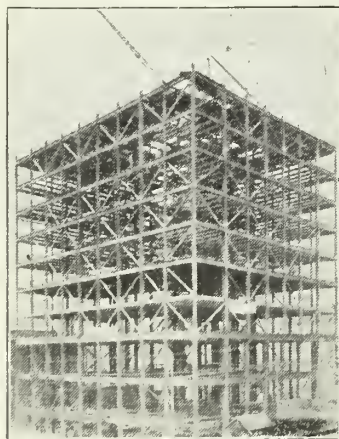
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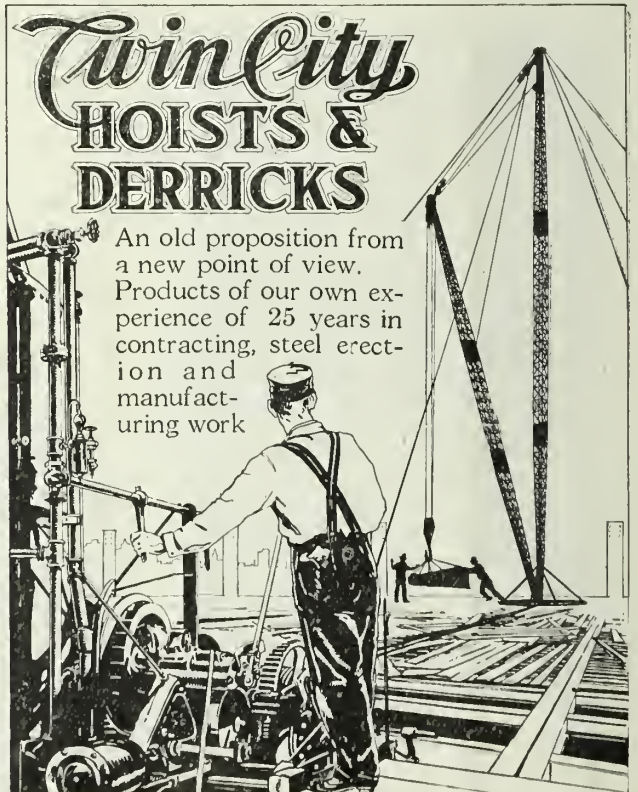
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**HOSPITAL.  
York, Nebr.**

Sealed proposals for the erection of a two story and basement hospital building, including wiring, plumbing and heating, will be received by the Board of Directors of Evangelical Lutheran Hospital Association, at York, Nebraska, on or before the hour of 2 o'clock, P. M., March 18, 1915, in accordance with the plans and specifications prepared by W. F. Gerhardt, Architect of 437-439 State Bank Bldg., Omaha, Nebraska. These are on file at office of Fred Strobel, Clerk of Dist. Court at York, Nebr., and at Architect's office. Special sets of same for exclusive use of only responsible and competent contractors may be secured from Architect.

A—For General Contract, Deposit Required, \$25.00.

B—For Heating and Plumbing, Deposit Required, \$15.00.

C—For Wiring and Conduit Contract Deposit Required, \$10.00.

Each proposal must be accompanied by Certified Check to amount of \$1,000 for A, \$500 for B, \$100 for C, made payable to Julius Schleuter, Treasurer, which will be forfeited to the Ass'n., if award of contract is made and the successful bidder does not enter into contract and furnish the required surety bond within ten days of date of award of contract, without protest. Proposals shall be made only on regular forms furnished by Architect, further information and instruction in specification. Right is reserved to reject any or all proposals, or to accept such proposal as man seem to be to best interest of the Evangelical Lutheran Hospital Association.

By Order of BOARD OF DIRECTORS,  
FRED STROBEL, President.  
O. BATZ, Secretary.

**ADVERTISEMENT FOR BIDS FOR  
LABOR AND MATERIALS IN THE  
CONSTRUCTION OF AN ELECTRIC  
LIGHT PLANT FOR THE VILLAGE  
OF WINDOM, MINNESOTA.**

Notice is hereby given that until 7 o'clock, P. M. on the 16th day of March, 1915, bids for labor and materials required in the construction of an electric light plant for the Village of Windom, Minnesota, will be received according to the plans and specifications which are on file in the office of the Village Recorder of said Village of Windom, Minnesota, and also in the office of Earle D. Jackson, Consulting Engineer, St. Paul, Minnesota, and may be there examined and seen.

The work is divided into two parts, viz.:

Part I., consisting of furnishing and erecting one 125 horse power fire tube boiler, breeching, piping connections, etc., one 75 k. v. a. and one 100 k. v. a. engine-generator unit, switchboard, etc., for the electric light plant of the Village of Windom, Minnesota.

Part II., consisting of furnishing and erecting poles, wire, street lamps, transformers, etc., for the electrical distribution system of the Village of Windom, Minnesota.

Bids will be received on complete parts only.

Bids must be made out on the bidding blanks furnished by the consulting engineer for this purpose, and must be accompanied by a certified check for 5 per cent of the contract price, as a guarantee that the bidder will enter into a contract and perform the work in case the contract is awarded to him. In addition the successful contractor must give a bond

for the carrying out of the work on award of contract for the full amount thereof, to continue for one year from date of acceptance of work.

The sum of \$3.00 (to cover cost of printing and mailing) must accompany applications for copies of plans and specifications and the latter must be returned with bid, otherwise the bid will not be considered. The consulting engineer reserves the right to make any minor changes in the plans or specifications before award of contract.

Address bids to the Village Recorder, Windom, Minn.

The right is reserved to reject any or all bids.

Village of Windom, Minnesota,  
W. M. HALE,  
Village Recorder.

**BRIDGE APPROACHES AT NEW ULM,  
MINNESOTA.**

Sealed bids will be received at the City Clerk's office, at New Ulm, Minnesota, up to 5 o'clock, P. M., March 18, 1915, for the furnishing of tools, labor, erecting equipment and all necessary materials to fully erect and construct combination steel and concrete approaches to the Beussmann and Courtland highway bridges spanning the Minnesota river at New Ulm, all according to the plans and specifications as prepared for same by the city engineer; and on file at the City Clerk's office.

Copies of the plans and specifications may be had upon application to the City Engineer.

All bids are to be sealed and marked, "Proposals for Bridge Approaches" and accompanied by a certified check in the sum of 10 per cent of such bid, payable to the City Clerk, to be forfeited to said City in case the successful bidder fails to enter into contract and furnish satisfactory bond within ten days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., March 2, 1915.  
(Seal.) WM. BACKER, City Clerk.  
F. D. MINUIO, City Engineer.

**NOTICE TO CONTRACTORS.  
School, Medina, N. D.**

Sealed proposals will be received by William F. Stege, Clerk of Guilford School District No. 3, at Medina, North Dakota, up to the hour of 1:30 o'clock, P. M. on the 29th day of March, 1915, for the complete construction of a two-story and basement brick school building, to be erected at Medina, North Dakota, (including complete mechanical equipment for the building) all to be in strict accordance with the plans and specifications for the work, as prepared by Gilbert R. Horton, Architect. Plans on file at the Minneapolis Builders' Exchange, at the Office of the Architect in the Citizens' National Bank Building, Jamestown, North Dakota.

All proposals must be made in strict accordance with the outlined form given in the specifications, and each proposal for the general contract must be accompanied by a certified check for \$750.00, and each proposal for mechanical equipment must be accompanied by certified check for three per cent (3%) of the highest alternate bid. Checks are to be made payable to R. J. Fox, President of the Board, and said checks to be forfeited to the Board in event of the failure of the accepted bidders to enter into satisfactory bonds as required by law.

The accepted bidders will be required to furnish bonds as required by the laws

of the State of North Dakota, and the same must be satisfactory to said School Board.

The Board reserves the right to reject any or all bids.

By order of the School Board, Guilford School District No. 3.

(Signed.) WILLIAM F. STEGE, Clerk.

**NOTICE TO DRAINAGE CONTRACTORS.**

**Sale of Ditch Job, Blue Earth, Minn.**

On the 19th day of March, 1915, at 11 o'clock A. M. at the office of the County Auditor in the City of Blue Earth, Minnesota, the undersigned will sell the job of constructing County Ditch Number 27 of Faribault County, Minnesota.

The approximate amount of work, and material to be furnished in the construction of said ditch is as follows, to-wit:

No. of feet	Size of tile.	Ave. depth.
700	20"	6.72
4900	18"	8.37
3700	16"	10.05
1200	12"	6.25
1965	10"	6.23
4400	8"	7.58
800	7"	4.70
400	6"	6.48

Tile or closed work, requiring digging and constructing trenches and refilling same, one reinforced concrete bulkhead, as per Engineer's specifications. Engineer specifies Number 1 hard burned clay tile, soil, black loam or clay subsoil. Average haul about 5 miles from Blue Earth on the Chicago and North Western Railroad and the Chicago North Western and Omaha Railroad, also an average haul of about 5 miles from Marna on the Chicago and North Western Railroad.

All bids must be accompanied by a certified check for not less than ten per cent of each bid, payable to the order of Jesse L. Herring, County Auditor. The successful bidder will be required to give a bond as provided by law. The right to reject any or all bids is hereby reserved.

CARL L. HAGGER,  
Engineer, Blue Earth, Minn.  
JESSE L. HERRING,  
County Auditor,  
Blue Earth, Minn.

Dated February 19th. 1915.

**HIGH SCHOOL.  
Excelsior, Minn.**

**Mechanical Equipment.**

The undersigned hereby gives notice that sealed proposals for the Heating, Ventilating, Plumbing, Gas Piping, Wiring and Electric Fixtures and Furnishings, including all labor and material will be received by the architects, McElroy and Kinport, 416 Essex Bldg., until the hour of 6 p. m., on the 13th day of March, 1915.

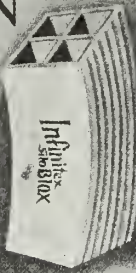
All bids must be in strict accordance with the plans and specifications, prepared by architects. A deposit of \$5.00 will be required for each set of plans and specifications. Same to be returned to bidder on return of said plans and specifications.

A certified check for 5% payable to the order of Board of Education, Excelsior, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the sum of value of contract for the faithful performance of the contract. The right is reserved to reject any or all bids.

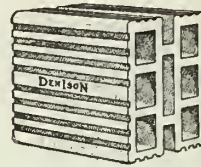
All bids must be sent to the  
BOARD OF EDUCATION,  
Excelsior, Minn.



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## THE STRONGEST TILE IN THE WORLD

Guaranteed crushing strength, 600 pounds to the square inch.

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Non-continuous mortar joints.

Vertical webs directly over each other.

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Red, Brown, Buff, Purple and Black

RICKETSON MINERAL PAINT WORKS, Milwaukee, Wis.



St. Paul—Continued from page 17.

Permit issued for the improvements at the town and country club, Marshall av., River drive, \$15,000; T. G. Holyoke, architect, Endicott building; A. G. Erickson, contractor, 404 Prior.

Bids for 600-foot well for city hospital were opened; machinery, Healy Plumbing & Heating Co., \$3,970; reservoir, McCleary & Co., \$1,410; well, J. Cary Co., \$1,125.

A 2-story brick store and flat is being built at Grove and Temperance, by W. J. Murphy; John R. Schmit, builder, 429 N. Dale; modern; \$5,500.

A big increase over February, 1914, is shown in the building permits for last month, \$797,054; last year February total was, \$371,445.

W. E. Jernegan, 1480 Lafond, is building three dwellings on St. Clair and Baldwin; frame, 22x26, modern; \$2,500.

\*Six stories will be added to the Walker Burton building, 7th and 1st av. N., in the spring; cost \$100,000.

City council passed ordinance for the municipal garage, \$21,000; plans by city architect.

Fire damaged the Langford garment store, \$2,000, 4th and Sibley; W. F. Repke, manager.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.

Mails news to Minneapolis office not later than Wednesday.

Leiser & Holst, architects, 402 Germania building, are preparing plans for an addition and remodeling of Mrs. Treumann's residence on 40th st., near Galena, to make it a duplex; the same architects are making plans for a \$6,000 store and flat building for H. A. Winter on Center st., near Holton st., of solid brick, 26x51, 2-story.

Edward Kozick, architect, 406 Alhambra building, awarded following contracts on \$10,000 store and apartment building for Otto Pribe, Vliet st., near 25th st., carpenter, N. M. Starck; mason, Ed. Steigerwald; sheet metal, J. Rumberger; steel, The Heil Co.; plastering, H. Tews.

L. M. Gurda, architect, 478 Mitchell st., is preparing plans for two \$10,000 residences with garages, one at 3d av. and Mitchell st., and the other on Layton blvd.; both will be of brick veneer, 30x58, with concrete garages, 22x20; hot water heat; bids about March 30.

H. P. Schnetzky & Son, architects, 712 Germania building, awarded the general contract for remodeling first floor and constructing mezzanine floor in cold storage and commission warehouse building of E. R. Godfrey & Son Co., Broadway, to C. A. Kleppe.

Contracts on a 4-family apartment house costing \$9,000, to be erected on Auer av., near Dousman st., were awarded as follows by H. W. Buehning, architect, 521 Jackson st.: carpenter, Otto Obermeyer; mason, Paul Anton; plumbing, J. J. Massino.

L. M. Gurda, architect, 478 Mitchell st., is preparing plans for a \$20,000 lodge hall, saloon, palm garden, apartment and store building at 3d and Windlake av., owners' name withheld; solid brick, 93x90; 2-story and basement; bids March 20.

Brust & Philipp, architects, Camp building, awarded following final contracts on \$200,000 mansion for A. F. Gallun on Newberry blvd., near Lake drive: marble, Andres Stone & Marble Co.; staff, Stillman & Paine Co.

J. Bach & Co., have engaged Geo. A. Kemnitz, architect, 87 Howell av., to plan a store and flat building on Muskego av., near Grant st., to be 2-story, solid brick, 56x75, containing 3 stores and 2 flats; furnace heating.

Meyer Wachofsky was awarded the general contract for the erection of a \$6,500 frame duplex and a \$5,500 frame duplex for S. Rosenthal on Wall st., near Center st., Geo. Zigel, 629 Walnut st., architect.

Final contracts on \$15,000 residence for Mrs. C. Hinkel and Leonard A. Meyer at Linwood and Hackett avs., include; tile work, mantel, etc., Wisconsin Mantle & Tile Co., Milwaukee; Carl Barkhausen, architect.

C. W. Valentine, architect, 428 Jefferson st., will close bids March 10, for the erection of a \$10,000 residence for Michael Rolfe in East Milwaukee; frame and rough cast plaster, 2-story, 36x34.

Gustav A. Dick, architect, 811 State st., will take bids after March 4, for the erection of a \$15,000 residence for John Reutemann on Hi-Mount blvd.; brick veneer, 2-story, 37x47, hot water heating.

W. F. Neumann, architect, is taking bids for the erection of a brick and tile painting office on 20th and Clybourn sts.,

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The following partial specifications show the real efficiency of the Smith Mixerette for the small concrete job. Read them carefully. You'll realize then what a dandy little mixer this is.

**Enclosed Gear Ring**—Big drum ring and driving pinion enclosed and protected against dirt and dust. Ring fits snugly into casing, the machined surfaces forming a perfectly true sliding bearing. Pressure grease cups lubricate the sliding bearing. The big drum gear splashes through an oil bath on every revolution.

**No Main Rollers, Shafts or Boxes**—Gear casing forms pedestals which are securely fastened to truck frame.

**Ropeless Power Charger**—Gear driven skip eliminates hoisting cable, sheaves and drums. Lifts easily and smoothly without the twisting, jerking motion common to pivot type loaders.

**Low Feed Level Batch Hopper**—This hopper is only 3 feet 10½ inches above ground. With its low flaring opening it can be loaded with ease.

**Truck**—4 inch steel channel sills, 2 inch square steel axles, 20 inch and 26 inch wheels.

**Capacity**—5 cubic feet loose material, 3 cubic feet mixed concrete per batch, 5 cubic yards per hour.

**Efficiency Plus**—Back of the Smith Mixerette are 14 years of experience in building mixers for every class of work, large and small. Write for special Proposal and Catalog No. 106-C.

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SAINT PAUL,

**Raymer Hardware Co.**

52-C East 5th Street

MINNESOTA

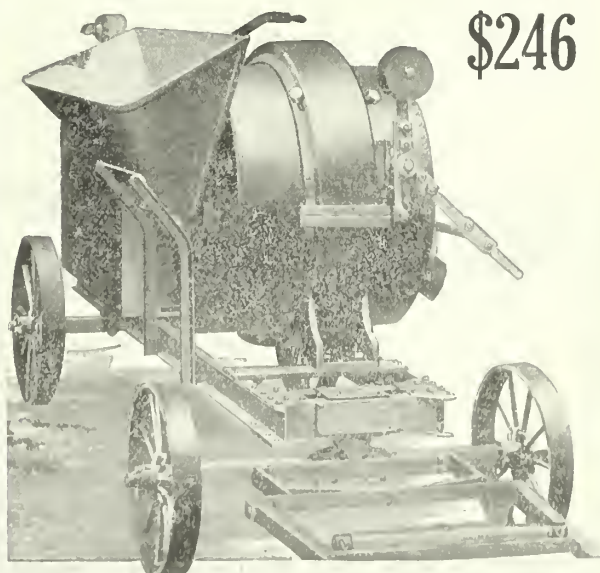
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owner's name withheld; 2-story, fireproof, 36x100; cost \$12,000.

The city clerk, Wauwatosa, Milwaukee county, closes bids March 13, 1 p. m., for drilling a 1,600-foot well, 12 to 8 inches diameter; check for \$300; A. V. Brigham, clerk.

Geo. A. Kemnitz, architect, 87 Howell av., is preparing plans for remodeling a brick and frame residence on Muskego av., near Grant st., at a cost of \$4,500.

Charles Summerfield was awarded the general contract for erecting a frame duplex for Miss N. Sawyer on Farwell av., at a cost \$7,500.

Hugo Miller, architect, 809 M. & M. Bank, is taking invitation bids for a store and flat building for Jos. Fehrer, costing \$6,500.

George C. Ehlers, architect, closes bids March 6, for a frame duplex for F. W. Benz on 39th st., near Wright st.; \$6,000.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

\*Building permits: Armour & Co., alterations to cold storage building, 1st av. W and Michigan st., \$6,800; T Spjotvold, frame dwelling, 20th av. E. and 4th st., \$3,500; V. Neuhietz, frame dwelling, Wellington st. and Michigan av., \$3,000; S. Karon, frame warehouse, 1st av. E. and Buchanan st., \$1,000; Refacha Building Co., 19th av. E. and 10th st., \$2,500.

\*E. H. Lovald, general contractor, has been awarded the contract for a 2-story brick veneer residence, 25th av. E. and 3d st.; John Carson, architect; cost about \$6,000.

\*The Hanford Construction Co. has been awarded the contract for a brick flat building on the upper side of 2d st., between 15th and 16th av. E.; 2 flats of six apartments each; cost about \$7,000; Arthur Hanford, architect; O. L. Davis, owner.

\*E. I. Gilinson, architect, 311 Glencoe building, is taking bids on a frame stucco residence for B. Cook, Woodland av., Cloverhill addition; cost about \$7,000.

\*W. P. Allred, Jr., architect, Mesaba block, has prepared plans for the remodeling of the Sunbeam theater front; work being done by day labor.

\*The Empress theater caught fire late last night and was almost completely gutted; about \$15,000, covered by insurance.

\*Fire destroyed building in which were: W. W. Seekins, florist; Stromquist & Moyer, interior decorators and the Wear-u-well Shoe Store; loss about \$20,000.

## SUPERIOR, WIS.

Hanna Coal Co. is building a fireproof boiler house at Conners Point coal dock; \$4,000.

A county industrial high school is favored by the county board.

## SIOUX CITY, IOWA

Bonds for the new \$80,000 technical high school at Missouri Valley, Iowa, have been carried by a two to one vote. The bonds will be advertised at once, after which bids for the building will be called for; F. E. Colby, 509 Davidson block, Sioux City is architect; J. S. McGovern, Missouri Valley, Iowa, president of the school board.

A call for bids has been prepared by the city council of South Sioux City, Neb., for the erection of an electric light plant to cost \$10,000 and will be advertised within a few days; Jas. Clements, president of the council; the current will be supplied by the Sioux City Gas & Electric Co.

The Egley-Payette Construction Co., Sioux City, has been awarded the contract for erecting the 4-story Gilman block at the corner of Pierce and 6th sts., to be completed Sept. 1; cost of construction \$100,000; material, reinforced concrete throughout.

Estimated cost of sewers for the Morning Side suburb, compiled by City Engineer Fded Smith, is given at \$26,000; bids are expected to be advertised for this week; the work will be done under Councilman E. O. Wesley.

Building permits for the week include: John Kurdla, house, 410 Omaha st., \$1,000; Gerhard Bruntein, house, 413 6th st., \$1,000; Mrs. J. C. Stevens, house, 810 22d st., \$2,000; E. A. Clowater, house, 1315 23d st., \$2,000.

Plans are being formed by F. P. Quick, of Inwood, Iowa, for the erection of a boys' club house, to cost \$8,000.

## OMAHA, NEB.

Board of Trade building, damaged by fire, will have to be rebuilt fireproof, according to ruling of the city commission, which states the damage was more than 50 per cent.

Efforts will be made to start construction of the proposed large modern club house for Omaha Knights of Columbus; T. P. Redmond, chairman.

Building for Paxton estate, 2566 Farnam st., will be 27x140, 3-story and basement reinforced concrete; Peter Kiewit & Sons, general contractors.

Frank J. Carey will build a brick business building at 24th and Erskine; modern, 2-story and basement; plans being prepared.

Miron Learned and Clara H. Wyman will make improvements at 3006 Farnam; cost \$6,000.

A \$5,000 plant will be built by the Raiston Serum Co., South Omaha.

## PUBLIC BUILDINGS

**Ill., Rock Island**—Cyrus D. McLane, architect, Robinson building, has just been selected to prepare plans for \$75,000 county jail. Address county clerk.

**Iowa, Ames**—Plans for the new city hall have been agreed upon by the city council; architect will complete; ready for bids about March 15. Address city clerk.

**Iowa, Davenport**—Council has plans under advisement for a \$45,000 comfort station. A. R. Boudinot, city engineer.

**Iowa, Glenwood**—Preliminary plans in progress for proposed jail and sheriff's residence; two stories and basement, \$12,000 to \$15,000; J. P. Guth, architect, Paxton block, Omaha; R. E. Humphrey, auditor of Mills county.

**Kans., Iola**—A \$25,000 jail for Allen county will be built this year; G. P. Washburn & Son, architects, city; brick, stone trim, fireproof; address county clerk.

**Minn., Moorhead**—The Commercial club has gone on record in favor of building an auditorium; committee of five appointed to suggest plan; address secretary, Commercial club.

**Minn., Murdock**—State Bank of Murdock will erect a new modern bank building, in the spring; brick.

**Mont., Hamilton**—County commissioners will soon ask bids on a wing to the court house; address county clerk.

**Neb., Falls City**—Grand jury recommends that a new county jail be built; address county auditor.

**Neb., Friend**—Plans in progress for a city library, 27x60, 1-story and basement, \$47,500; J. W. Salmon, architect, First National Bank building, Lincoln; C. W. Boulby, mayor.

**Neb., University Place**—City clerk instructed to make application to Carnegie Library Foundation for \$20,000 for a library building.

\***S. D., Hayti**—Architect will be chosen soon for the \$60,000 fireproof courthouse, Hamlin county.

\***S. D., Milbank**—C. E. Bell, architect, Minneapolis, Minn., was chosen to furnish plans for the new Grant county court house; cost about \$100,000.

**Tex., Beaumont**—Plans accepted by county commissioners for a 7-story 100x100 stone, granite and concrete jail, to cost \$350,000.

**Wash., Elma**—City expects to secure \$5,000 Carnegie library; address city clerk.

**Wash., Seattle**—Council voted to remodel 4th floor of the city hall for jail purposes, cost \$50,000; address city clerk.

**Wis., Beloit**—Plans for proposed armory are being prepared by Capt. Buck of Company L, W. N. G., which may be made part of the new Woodmen building.

**Wis., Manitowoc**—Mayor Stolze is advocating building of a city hall, theater and natatorium.

**Wis., Medford**—Announced bids would be taken about Mar. 1, for a library building, 30x50, 1-story and basement, \$8,000; A. J. Latton, secretary.

### BIDS WANTED.

**Kans., Independence**—Plans ready for bids about March 20 on city hall; Rose & Peterson, architects, Barker building, Kansas City, Kans.; brick, stone and terra cotta trimming, fireproof, composition roof, structural, ornamental and architectural iron, marble mosaics; C. H. Kerr mayor.

**Minn., Graceville**—Bids received by secretary of library board until 6 p. m., March 20, for library building, 1-story and basement; plans by F. H. Ellarbe, architect, St. Paul, Minn.; officially advertised in this issue of the Improvement Bulletin.

**Minn., Red Wing**—Bids received by C. H. Meyer, auditor,



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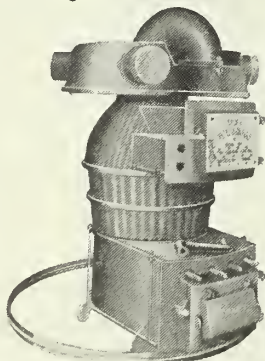
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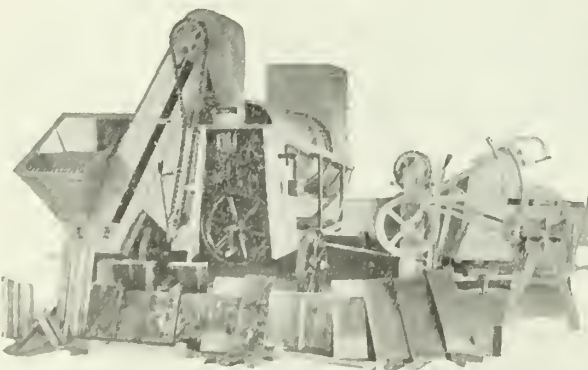
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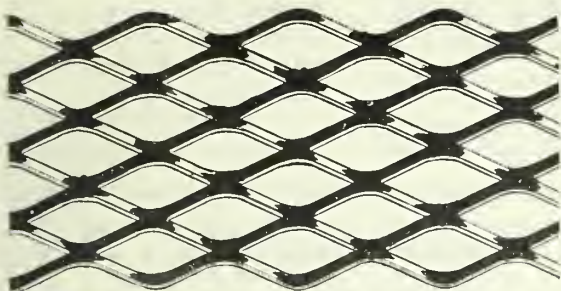
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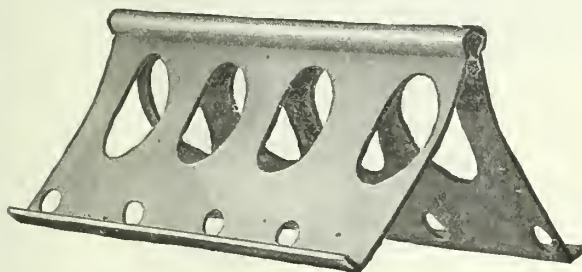
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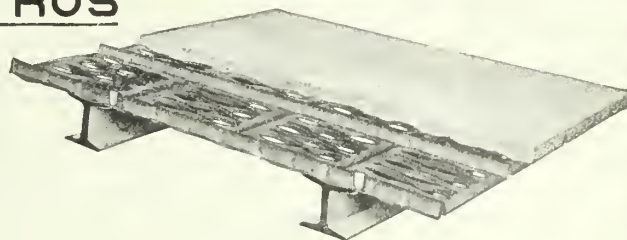
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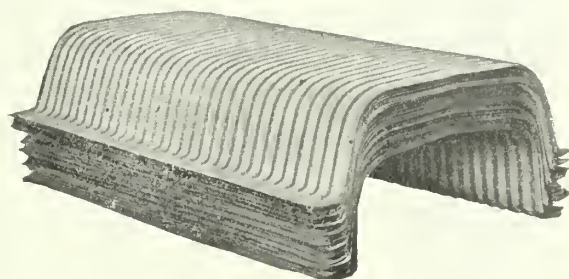
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Goodhue county, until 10 a. m., March 19, for building an addition to the vault in the auditor's office; check for 5 per cent.

**S. D., Pierre**—Bids received by Cato Sells, commissioner of Indian Affairs, Washington, D. C., until 2 p. m., March 30

**Texas, Corpus Christi**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., April 19, for construction complete, including mechanical equipment, except elevator, and approaches, of the U. S. postoffice, court house and custom house; specifications after March 12. for a brick mess hall, for Pierre Indian school. Official advertisement in the Improvement Bulletin this week.

**Wis., Milwaukee**—Bids close about March 15 for removing three boilers and installing two new boilers of 110 h. p each, down draft furnace type; check for 5 per cent.

**Wis., Racine**—Bids being taken by John Lutz, owner, 1019 Hamilton st., for a branch post office and apartment building, 43x90, 2-story and basement, \$12,000; D. R. Davis, architect, 527 Wisconsin st.

**Wis., South Milwaukee**—Bids will be taken next month on city jail to cost \$6,000; J. O'Connell, clerk.

**Wis., Wauwatosa**—Bids will be taken in the spring for an addition to the city hall; 15x40, 2-story and basement; address F. A. Torkelson for information.

### CONTRACTS AWARDED.

**Iowa, Montezuma**—Contract to Pauley Jail Building Co., St. Louis, Mo., to erect and install equipment for county jail at \$3,986; other bidders were: Van Dorn Iron Works., Cleveland, O., at \$4,097, and Stewart Iron Works Co., Cincinnati, at \$4,332.

**Minn., Duluth**—Contract to Geo. H. Lounsberry, Lonsdale building, for 4-story, fireproof, steel, brick, stone and concrete armory, at \$107,410; Kelly & Williams, architects, city.

**Neb., Geneva**—Contract to L. L. Fisher, city, for city hall and fire station, two stories and basement, 83x80.

**Neb., Lincoln**—Lowest bid for completion of federal building has been submitted by J. H. Weise, South Omaha.

**N. D., Mandan**—Contract to Mandan Transfer Co. for excavation for new post office building and D. J. Rober & Son awarded contract for 300,000 concrete brick for walls and back at \$3,000; general subcontract held by Geo. W. Stiles Construction Co., Chicago.

**Wis., Watertown**—Contract to Wm. C. Raus & Sons Co. for painting and plastering in the U. S. postoffice.

## ELECTRICAL

**Minn., Hendrum**—A dam may be constructed at Rice Lake soon and installation of a power plant and lighting system.

**Minn., Maple Lake**—Ordinance passed granting the Light & Power Co. of St. Cloud, Minn., right to construct operate and maintain electric light and power plant here; J. J. Gorman president village council.

**Mont., Deer Lodge**—City council has passed resolution to install electric lighting system of cluster lights on both sides of Main st.; hearing March 8, 8 p. m., I. S. Eldred, city clerk.

**Neb., Edgar**—Special election will be held March 14 to vote on issuance of \$13,500 for building a new electric light building and purchasing new dynamos, engines and other necessary equipments. W. J. Breckenridge, city clerk.

**N. D., Minto**—Installation of an electric light plant is being discussed.

**S. D., Woonsocket**—The Schuler Electric Co. has recently remodeled its plant and installed steam engines; company proposes to extend its transmission lines and supply electricity to six smaller towns; A. G. Schuler, president and manager.

### BIDS WANTED.

**Neb., Adams**—Bids received until March 12, by Village Clerk Chas Putney, for one oil engine, one generator, poles and material for construction of an electric light plant, to cost about \$4,000.

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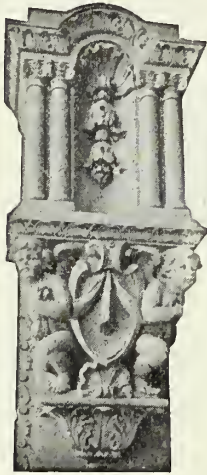
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## CONTRACTS AWARDED.

**Minn., Red Wing**—Contract awarded to Arthur T. Taber of Standard Electric Equipment Co., for wiring the new state training school.

**Wis., River Falls**—Common council awarded contract for furnishing two 5 amp. series luminous arc lights, rectifier system, of 50 lamps capacity, each and for 20 5 amp., arc lamps complete, to the General Electric Co.; Allen P. Weld, city clerk.

## HOTELS AND HOSPITALS

**Iowa, Sioux City**—Preliminary plans completed for Deaconess' home; 2-story and basement, 40x145, \$25,000 to \$30,000; F. E. Colby, architect, Davidson building; Rev. H. E. Hitchinson, chairman building committee, 2001 Nebraska st.

**Minn., Bemidji**—Dalton hotel damaged by fire to amount of \$4,000; fully insured; John Dalton, owner.

**Minn., St. Paul**—Plans completed about April 1, addition to St. Luke's hospital, care R. B. Whitacre, Smith av.; 45x90, 5-story and basement, \$80,000; C. H. Johnston, architect, Capital Bank building.

**Mo., Kirksville**—Sketches are being prepared for a \$75,000 hotel, promoted by the Commercial club.

**Mont., Judith Gap**—John Dolan will rebuild hotel recently burned; 2-story, brick, 25 rooms, modern.

**N. D., Kenmare**—Drs. John and Fred Ewing will build a hospital this spring, site to be location of present hospital; cost \$25,000.

**N. D., Rugby**—Old Commercial hotel badly damaged by fire; owned by Mrs. T. S. Houghton, Saskatoon, Canada.

**Ore., Forest Grove**—Hotel Laughlin, recently burned, will be reconstructed at once.

**Ore., Nahcotta**—Johnson hotel, recently burned, will be rebuilt.

**Ore., Portland**—Repairs will be made at once to Alder hotel building, damaged by fire; improvements to cost \$40,000.

**Ore., Vale**—Arlington hotel is being remodeled; addition will be built and heating plant installed.

**S. D., Effington**—Mass meeting of citizens on the 4th to form temporary organization for erection of hospital; part of the necessary funds already subscribed; address the mayor.

**S. D., Woonsocket**—Reported a strictly modern hotel will be built here this season; address the mayor.

**Wash., Walla Walla**—Stone annex will be added to Walla Walla hospital, to cost \$25,000; Dr. J. F. Cropp, owner, of building.

**Wis., Green Bay**—Plans for sanitarium and hospital for Wisconsin Deaconess' Hospital Association, Green Bay, will be submitted to the directors by P. T. Benton, architect, city, on March 20, and bids will be asked for immediately following; estimated cost, \$65,000; 45x120, 3-story, reinforced concrete and brick.

**Wis., Kenosha**—Plans of Jos. Lindl, architect, have been accepted for county tuberculosis hospital; \$25,000; bids probably called for about March 15; Russell H. Jones, county clerk.

**Wis., Ladysmith**—Plans in progress for hospital for the Mantellette Sisters' Association; 46x100, 3-story and basement, \$40,000; H. T. Liebert, architect, Wausau, Wis.

**Wis., Milwaukee**—Plans being prepared for Infants' home and hospital at Prospect av. and Bradford st.; 3-story, probably, 38x70, brick and concrete.

**Wis., Neenah**—Joseph Schneider of Brighton Beach is planning extensive alterations and remodeling of both hotel and grounds.

**Wis., Polonia**—Frank Spalenka, architect, Stevens Point, Wis., taking bids on Orphans' Home for Felecan sisters; 65x100, 2-story and basement, \$14,000.

**Wis., Racine**—Sketches submitted on addition to hospital owned by St. Luke's hospital; 2-story; Guilbert & Funston, architects, Robinson building.

**Wis., Rhinelander**—Announced that Geo. Herman, architect, Antigo, Wis., will take bids on all material for the proposed hotel; owner's name withheld; 100x120, 3-story and basement; \$75,000.

**Wis., Union Grove**—Specifications are being prepared for home for feeble-minded; 3-story and basement, \$350,000; R. A. Meemer & Bro., architects, Majestic building, Milwaukee; address state board of control, Madison, Wis.

## BIDS WANTED.

**Kan., Wellington**—Bids will be taken about March 20, on a private hospital owned by Dr. A. R. Hatcher, city; 44x65,

3-story, \$75,000; H. S. Conrow, architect, Beacon building, Kan.

**Neb., Omaha**—Bids taken about March 10 on hotel; owner's name withheld; 132x70, 4-story and basement, \$100,000; W. R. Stockham, architect, Rame building.

**Wis., National Home**—Bids received by R. W. Corbett, treasurer, until noon, March 9, for painting N. H. D. V. S.; specifications on application.

**Wis., Sturgeon Bay**—Bids are being taken by Co-operative Orchards Co., care J. G. Martin, city, for proposed hotel; 80x150, 2-story, \$10,000; Carr & Walsh, architects, Minahan building, Green Bay, Wis.

## CONTRACTS AWARDED.

**Minn., Red Wing**—Contract to Cameron & Co., Ryan building, St. Paul, for addition to state hospital; steam heating and plumbing to P. J. Gallagher, Faribault; electric work to Standard Electric Co., city.

**Ore., Portland**—Contracts for work in changes on Imperial hotel let as follows: J. D. Thesham, Couch building, partitions, plaster, etc.; Nicolai Neppach, mill work; Central Door & Lumber Co., glazing; Fred Watner, tile; J. G. Mack, decorating; Jacobsen-Detemple, plumbing and heating; Morrison Electric Co., electric work; Schanen Blair, marble and granite.

## CHURCHES

**Iowa, Des Moines**—Fire damaged the Highland Park Presbyterian church, about \$2,000; Rev. W. S. Harris, pastor.

**Iowa, Mason City**—Funds are being raised by Greeks, for Catholic church.

**Iowa, Pocahontas**—H. M. Tornow has contract for decorating the interior of the M. E. church.

**N., D., Grand Forks**—Plans are being completed for a new Catholic church for the South End parish, by W. J. Edwards, architect, Grand Forks; stone, brick and steel, fireproof; cost about \$60,000; Rev. Father M. J. O'Driscoll, pastor.

## BIDS WANTED.

**Wis., Milwaukee**—John Paul, architect, R. F. D., No. 1, station D, Milwaukee, will take bids until March 15, for a \$15,000 edifice for the Holy Redeemer congregation; Perry, Dane county, Wis.; brick, 2-story, 40x76, furnace heat; Rev. Theo. Rohner, Horeb, Wis., in charge.

**Wis., Neenah**—Wm. Waters, architect, Oshkosh, Wis., will take bids about March 15, for erection of a \$15,000 edifice, 44x87, for the English Lutheran congregation; brick and stone.

**Wis., Stevens Point**—Fire damaged Episcopal church of Intercession, about \$10,000; insured at \$7,500; Rev. E. Croft Gear, pastor.

## CONTRACTS AWARDED.

**Minn., Detroit**—Contracts awarded to Martin Britt, of Detroit, for Catholic church.

**Neb., North Bend**—Contract awarded to Robert McHale of Fairbury for erection of church; J. H. Craddock, architect, Omaha.

## THEATRES AND HALLS

**Ill., Peoria**—Old Y. M. C. A. building burned and Orpheum theater damaged; total loss \$300,000.

**Iowa, Audubon**—Work about completed on conversion of garage into a ground floor opera house, R. B. Hayes, owner; walls decorated, inclined floor put in; opera chairs installed.

**Iowa, Cedar Rapids**—M. Ford, owner, 1900 Linden drive, reported ready for bids for theater and stores; 60x140, 50 feet high, \$35,000; W. J. Brown, architect, American Trust building.

**Iowa, Clear Lake**—Masons have purchased site and will build a 2- or 3-story building; address the secretary.

**Iowa, Des Moines**—Riverside Canoe & Outing club will build club house with 100 lockers; address the secretary.

**Iowa, Fort Madison**—Club house will be built by A. B. Schultz and others at Mormon Spring.

**Iowa, Inwood**—Plans in progress for an \$8,000 boys' club house; Rev. F. P. Quick, pastor, Methodist church.

**Iowa, Marshalltown**—Red Men planning to purchase site for lodge home and expect to build next year; address Dorr L. Lamb, chairman committee.

**Iowa, Marshalltown**—Wm. Englert has bought the Marsh building and may rebuild and open a moving picture theater.

**Iowa, Sidney**—Masons will add second story to their building, to be used for lodge purposes.

**Iowa, Spencer**—A \$50,000 Masonic temple is being planned; address secretary lodge.



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**Kans., Topeka**—Reported Masonic building to be built by the grand lodge will be located at 8th and Harrison; approximate cost \$500,000; probably fireproof; O. H. Wood, Topeka, for information.

**Mich., Bay City**—Yeoman hall and two residences burned; loss, \$7,000, partly covered by insurance.

**Minn., Duluth**—Empress theater practically destroyed by fire, loss \$20,000; W. M. Abrahamson, manager.

**Minn., Fairmont**—Commercial club is backing proposition for new opera house; address the secretary.

**Minn., Lake Crystal**—Plans in progress for picture theater, Mark Barney, owner; 34x100, 2-story, \$7,000; Geo. Pass & Son, architects, Mankato.

**Minn., Luverne**—Plans accepted for a big barn for the Rock county fair, 40x230, over 9,200 square feet ground floor space; G. A. Hagedorn, chairman of committee having matter in charge.

**Minn., Moorhead**—Commercial club taking steps to have an auditorium built here; committee will be appointed to act on the matter and report. Address E. E. Sharp, president.

**Mont., Helena**—The manager of the Placer hotel, Maurice Weiss, contemplates a roof garden and plans are being drawn by Geo. S. Carsley, architect; Will be in form of pergola and may be enclosed in glass.

**Neb., Holdrege**—An opera house will be built here in the spring by L. C. Severns, 50x120, 1-story.

**Neb., Kearney**—Effort being made to secure an educational building at county fair and funds being raised; J. S. Elliott, for particulars.

**Neb., Omaha**—Knights of Columbus are figuring on building a new club house at 20th and Dodge sts.

**Neb., Palmyra**—Reported the Odd Fellows will build on their site on C st., address secretary.

**N. D., Belfield**—Frank Sharman is contemplating building a hall, store and office building; about 50x115, 2-story and basement, \$20,000.

**N. D., Grand Forks**—Contract to J. D. Bacon for theater building; 50x140; brick and concrete, handsome interior, everything modern.

**Ore., Klamath Falls**—Investigation being made as to advisability of heating Elks' building entirely by electricity; building not yet built.

**S. D., Madison**—Reported architects are ready for bids on a theater owned by S. K. Leen, care architects; 2-story and basement, \$20,000; Miller, Fullenweider & Dowling, architects, 6 N. Michigan av., Chicago.

**S. D., Redfield**—Plans under way for a new theater to replace the Lyric, recently burned; H. P. Packard is chairman of committee of the Commercial club, which is pushing the matter.

**S. D., Sioux Falls**—Plans being discussed for \$50,000 club building for Dakota club; committee appointed to investigate and report. Address secretary club.

**S. D., Zell**—A new hall will be erected here; 1-story and basement; address the mayor.

**Wash., Anacortes**—Committee appointed to examine and report on advisability of building Chamber of Commerce building.

**Wash., North Yakima**—Reported Knights of Columbus will build a 2-story and basement building this year.

**Wash., Spokane**—Permit granted W. E. Willerton for remodeling theater building.

**Wis., Antigo**—Preliminary plans in progress for a theater and office building owned by Schoblasky & Guenthoer; C. F. Dahlman, architect.

**Wis., Grand Rapids**—Plans in progress for remodeling guild hall for St. John's Episcopal church; 18x46, \$2,000; Rev. A. C. Fleidner, rector, 503 Oak st.

**Wis., Marshfield**—Architect will soon be selected by W. H. Kamps for a \$15,000 picture theater.

**Wis., Rhinelander**—Plans in progress for remodeling and addition to theater owned by Mr. Zander; cost \$15,000; H. T. Leibert, architect, Wausau, Wis.

**Wis., Washburn**—Odd Fellows have purchased west half of the Union block and will remodel it; the other half of the building may be purchased; address secretary, Chequamegon lodge, No. 335.

**Wis., Washburn**—The E. I. DuPont Co. has made an appropriation for purchase of the Sheridan building, which will be converted into club rooms for employees; gymnasium, reading rooms, library, pool and billiard rooms, etc.

**Wis., Wausau**—The Eagles decided to purchase property and contemplate building club house; address secretary Aerie No. 251.

#### BIDS WANTED.

**Kan. Dodge City**—Ready for bids soon on excavation for theater building; M. Beeson, owner, cost \$25,000; R. A. Curtis, architect, Reserve Bank building, Kansas City, Mo.;

70x75, 1-story and basement, fireproof, stucco, concrete blocks, reinforced concrete floors and roof slabs, composition roof, steam-heat, plumbing, electric wiring, seating capacity, 1,000.

**\*Minn., Luverne**—Bids received until March 23, 2p. m., by Herman Jochims for an opera house; plans by W. E. E. Greené, architect, Luverne, brick, 2-story, 63x136, steel frame, beams, columns, fire escapes, reinforced concrete, limestone, common brick, pressed brick, hollow brick, electric light, sheet metal ceiling, ventilation, tin roof, metal lath, plate, prism, and figured glass, tile floor, exterior and interior marble work, birch floors, birch finish, cost \$35,000; official advertisement in the Improvement Bulletin this week.

**Neb., Harvard**—Bids received at once on library building, J. E. Tillotson, secretary; brick and stone construction; 1-story and basement, cost \$10,000; paving and common brick, electric wiring, plumbing, painting, tile, structural iron, metal windows, metal lath, metal ceilings, ventilating, hollow tile, etc.

**Wis., Baraboo**—Bids received by C. W. and G. L. Rapp, architects, 69 W. Washington st., Chicago, until March 8-10, for the erection of a \$75,000 theater, office and store building for Alfred Ringling, of Ringling Bros.; fireproof, brick and reinforced concrete; 75x82, 2-story.

## SCHOOLS

**Minn., Bronson**—School will be erected here in the spring.

**Minn., Fertile**—School district No. 44, Polk county, on Mar. 1, 1915, voted bonds in amount of \$32,000 for new brick school building complete with heating and ventilating, Fertine Brick & Tile Co., E. B. Hanson, secretary.

**Minn., Florence**—Fire destroyed 4-room school building; steps will be taken soon to rebuild.

**N. D., Granville**—Bonds of \$17,000 were voted for school.

**N. D., Leipzig**—New Leipzig school burned, loss about \$5,500, insured at \$4,000; plans being prepared for new school building.

**N. D., Leonard**—Fire destroyed the school; loss \$8,000.

**Wis., La Crosse**—The North Side Junior school burned; loss about \$4,000, insured at \$4,000.

**Wis., Spencer**—Architect Gust Krasin is preparing plans for a 2-story and basement school, brick, furnace, heat, modern throughout.

**Wis., Wausaukee**—Election March 18, on \$20,000 school bonds to rebuild school, burned.

#### BIDS WANTED.

**Iowa, Truro**—Bids received until March 18, 1 p. m., for school in Madison county; plans at office of architects, Morrison & Thorne, 522 Capital City Bank building, Des Moines, or with Ed. Garst, Truro; check \$400.

**\*Minn., Excelsior**—Bids will be received March 13, 6 p. m., for heating, ventilating, plumbing, wiring, and gas piping, electrical fixtures and furnishings, for school, McElroy & Kinport, architects, 416 Essex building, Minneapolis; check for 5 per cent; official advertisement in the Improvement Bulletin this week (change of date).

**Mont., Reed Point**—Bids will be received until 1 p. m., Mar. 20, by trustees of district No. 24, Sweetgrass county and No. 28, Stillwater county, for a school; plans at office of H. M. Allen & Co., Reed Point, and office of County Attorney R. S. Steiner, Big Timber, Mont.; F. H. Mehlgier, clerk.

**N. D., Crosby**—Bids will be received until March 23, 10 a. m., for school building in district No. 2, at the office of the clerk, J. T. Faa; plans with county superintendent of schools, Crosby; check 10 per cent.

**N. D., Medina**—Bids received till 1:30 p. m., March 29 for complete construction of brick school, 2-story, by Wm. F. Stege, clerk of Guildford school district; check for \$750; see official advertisement in Improvement Bulletin this week; Gilbert R. Horton, architect, Citizens' National Bank building, Jamestown, N. D.

**N. D., Rutland**—Bids will be received until 2 p. m., March 23, for erection of a school; plans at home of Andrew O. Sundlie, clerk, Rutland, school board, Forman S. D.; check 2 per cent.

**S. D., Plankinton**—Bids received until March 25, 1 p. m., for a school in Aurora county, Palatine school district; plans at office of the Mail, B. L. Eastman, clerk of district.

**Wis., Chetek**—Bids received until March 9, for erection of school in the Sykes district; address clerk.

#### CONTRACTS AWARDED.

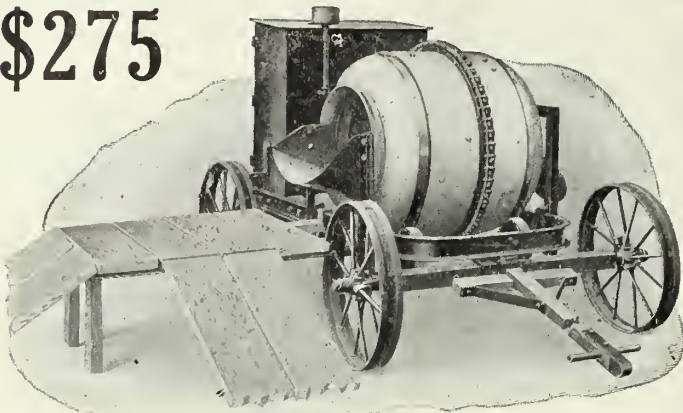
**Wis., Madison**—Contract awarded to T. C. McCarthy of Madison for erection of Fair Oaks school; does not include heating contract.

**Wis., Oshkosh**—Contracts awarded as follows on the pro-



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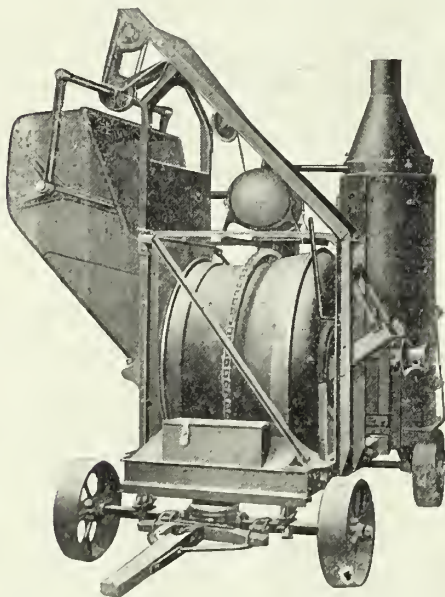


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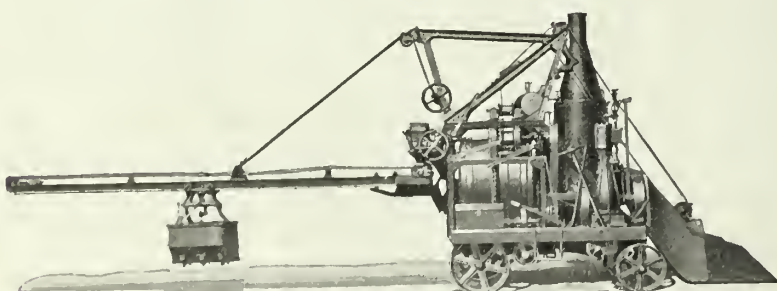


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**Wis., Superior**—Contract for the model training school building to replace structure burned last March will be let this month; 110x80, 3-story, fireproof, modern, cost about \$80,000; plans have been practically completed by the normal school architects; Clough Gates, regent of the normal school.

## ELEVATORS

**Iowa, Coon Rapids**—Gilley & Gustoff will erect a grain elevator to replace one recently burned.

**Minn., Arlington**—Fire damaged the elevator owned by E. L. Welch & Co., valued at about \$4,000.

**Minn., East Grand Forks**—Monarch Elevator Co. will rebuild elevator recently burned, at Carthage Junction.

**Minn., Thief River Falls**—A potato warehouse will be erected here; A. J. Hoverstad, superintendent, agricultural department, interested.

**Neb., Ravenna**—Elevator will be erected at St. Michael. **Sask., Aberdeen**—British America Co.'s elevator burned; loss of about 20,000 bushels of wheat; Maple Leaf Milling Co.'s elevator also burned at Naples, in the Deloraine, Man. district, 5,000 bushels wheat.

**Wis., Packwaukee**—E. C. Johnson elevator burned; partly insured.

## GARAGES AND BARNES

**Minn., Badger**—A modern garage will be erected here; 40x80, concrete floor, for Magnus Hovig, contract let to J. N. Johnson.

**Wis., Colfax**—Paul & Rosenberg are making plans for erection of a garage, 60 feet square, basement, Colfax stone, modern.

**Mont., Glasgow**—Fire destroyed the garage of the Fick Auto Co., loss \$15,000; Glen Fick, president.

**Neb., Kearney**—J. W. Patterson and C. B. Finch have plans completed for modern garage, concrete and brick, fireproof, trussed roof, 75x108, cost about \$12,000.

**N. D., Fargo**—Fire damaged the Ball garage about \$5,000.

**Wis., Antigo**—Harry Jennings, agent for the Mitchell-Lewis Motor Co., has plans for a garage, 42x69, steel sheeted, interior and exterior.

**Wis., Fennimore**—Henry Kratochville will build a modern barn in the spring; Olaf Hoffland also will build barn.

**Wis., Manitowoc**—Frank Wanek will build a basement barn in the spring.

**Wis., Shawano**—Plans are being drawn by C. C. Fritz, architect, for a basement barn at the county asylum, 42x120, 74 stanchions, 2 silos, modern throughout.

**Wis., Wrightstowner**—Paul Maves will build a barn, 40x70, modern, Henry Ziemer, barn, 34x68, Frank Van Laanen, barn, 40x115, hip roof; Geo. Uncles, barn 40x70 hip roof; Louis Schnitzler, barn, 36x68, hip roof.

## RESIDENCES

**Minn., Albert Lea**—Mrs. Martin Blacklin will build four 5-room apartments, modern.

**Minn., Bemidji**—More than 50 cottages will be built at Wayville and Riverside, suburbs of Bemidji, the coming summer, according to report of J. J. Opsahl, manager of the Red Lake Northern Improvement Co.; ten cottages will also be erected at Bass Lake, and C. R. Rank of Minneapolis and friends of Minneapolis, will erect 10 at Long Lake; many cottages will be erected in the city and along shore of Bemidji lake.

**Neb., St. Paul**—Arthur Charais will erect a modern dwelling.

**Neb., Valparaiso**—W. G. Johnson will erect a modern residence.

**N. D., Colfax**—E. Score will erect modern dwelling; two more dwellings will be erected also.

**N. D., Daglum**—Halvor Peterson will erect modern dwelling.

**N. D., Hampden**—Fire destroyed the home of A. Welcome; loss \$7,000.

**Wis., Cascade**—People here will erect parsonage, 28x30.

**Wis., Cooperstown**—Henry Ebling is planning to build modern residence.

## BIDS WANTED.

**Minn., Beardsley**—Bids will be received until March 6, for erection of a parochial residence for St. Mary's parish; plans at pastor's office, St. Mary church.

**Minn., Johnson**—Bids will be received until March 10, 12 m., for erection of a parsonage for Evangelical Lutheran Trinity congregation of Leonardsville township, Traverse county; plans with J. C. Seigler, pastor and Winter Brothers, of Johnson, Minn.

**Minn., Madison Lake**—Bids received until March 6, 2 p. m., for erection of a bungalow for Chas. J. Popelka, plans at architect's office and People's State Bank, at Madison Lake; Albert Schippel, architect, Mankato.

**N. D., Alice**—Bids received until 2 p. m., March 11, for complete construction of new frame rectory for St. Henry's parish, Wm. F. Kurke, architect and engineer, 24 Huntington block, Fargo; plans with architect; check \$25,000; Rev. W. C. Schimmel, pastor.

**Wis., Denmark**—Bids received until March 15, 2 p. m., for erection of a modern house for M. J. Flaherty, Denmark, Wis., route 2, plans prepared by Leo. J. Lee, architect, on file with Mr. Flaherty, at Stark; check \$100; bids received until 10 a. m., same date for heating and plumbing; check \$50.

## CONTRACTS AWARDED.

**Neb., Omaha**—Contract awarded to John Harte for erection of the Sagamore apartments, 6 apartments of 6 rooms each, at 3828 Case st., cost about \$18,000; 3-story.

**Wis., Hudson**—Contract awarded to Kircher Brothers of Hudson, Wis., for annex to the sheriff's residence, at \$1,544.

## FIRE APPARATUS

**Iowa Clinton**—Bids will be received March 9, for motor equipment for the Central fire station.

**Minn., Blue Earth**—Bids received until 8 p. m. March 8, for chemical fire engine for the fire department, 40 to 60-gallon capacity; check 10 per cent; Easton Floe, city clerk.

**Minn., Holt**—Special election will be held March 9, to vote on incorporating village of Holt.

**Minn., Tower**—Bids will be received until March 9, 8 p. m., for purchase of 500 feet of 2½-inch fire hose, without couplings, by the city council; Chas. Lang, recorder.

**Mont., Hilger**—Five towns in Fergus county, Mocassin, Roy, Winifred and Benchland, have arranged to purchase fire fighting apparatus; address city clerk.

**Mont., Hysham**—Election will be held April 26, to vote on incorporation of village of Hysham.

**Mont., Kalispell**—Bids will be received until March 9, for erection and installation of a steel tower and a siren steam whistle at the Central fire station.

**Wis., Amhurst**—Frank Metcalf was elected president of the Amherst Volunteer fire department, and G. E. Jordan, chief.

**Wis., Iron River**—Village has voted to purchase an auto fire truck, at cost of \$5,750, to be delivered in June.

## BUSINESS BUILDINGS

**Iowa, Leon**—A. L. Belding will rebuild at once the building recently burned.

**Iowa, Melbourne**—Plans are being prepared by Architects Reimer & Herlin, Marshalltown, Iowa, for a store and lodge building; cost \$10,000.

**Iowa, Spencer**—The Crown Bottling Works will erect a business block this summer; cement block and brick.

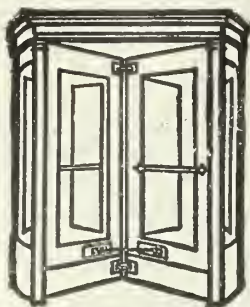
**Iowa, Waterloo**—The Waterloo & Cedar Falls Union Mill Co. is planning the erection of a fireproof warehouse soon.

**Minn., Ada**—Plans being prepared by Bert D. Keck, of Crookston, for general store building, for C. R. Andrews & Co., cost about \$10,000.

**Minn., Little Falls**—Plans prepared by Architect Rolland C. Buckley, St. Cloud, for a 2-story, store and office building, for the German American Bank, brick, 25x90, fireproof, cost \$12,000; bids taken March 6, and close March 19, by owner; steel beams, sand and terra cotta cut stone, common and pressed brick, steel vault doors, (2) steam heat, electrical



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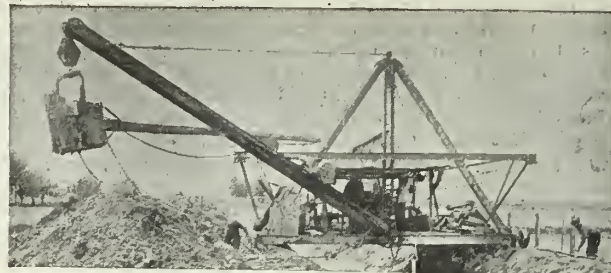
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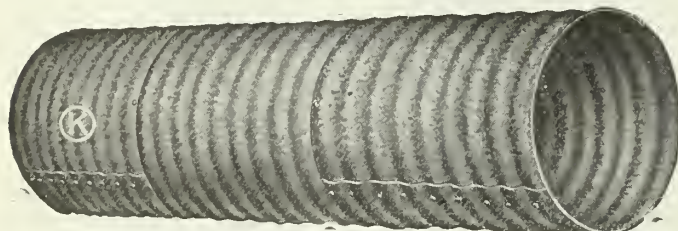
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fixtures, galvanized skylights, sheet metal ceiling, composition roof, patent, ornamental plaster, corner bead, plate, wired, prism, figured and sidewalk lights, glass, maple and tile floors, birch finish.

**Minn., St. Cloud**—Plans being prepared by Architect R. C. Buckley, St. Cloud, for a 2-story brick store building, for Mrs. Louise Peters, 20x78, cost \$12,000; bids taken March 20, opened April 9, by owner; steel frame, iron vault, lights, fire escapes, granite, cut stone, architectural terra cotta, common, pressed brick, steam heat, electricity, skylights, galvanized sheet metal ceiling, composition roof, patent plaster, corner bead, plate, prism, wired and sidewalk lights, maple floors, birch trim.

**Mont., Billings**—H. W. Rowley will erect a modern \$20,000 store building, plans being prepared; 75x140, contain from 6 to 8 stores.

**Neb., Omaha**—Peter Kiewit & Sons will build a business building in Paxton Court, 2555 Farnam st. for the Firestone Co.; 27½x140, 3-story and basement, reinforced concrete.

**Neb., Omaha**—Plans are being drawn for erection of a modern brick for Frank J. Carey; 2-story and basement.

**N. D., Almont**—Fire destroyed the business district, including the Timmerman's general store, owned by C. B. Collins of Minneapolis, pool hall of Oliver Deppin, barber shop of Frank Todt, Bon Bird pool hall.

**Wash., Olympia**—Work will commence soon on new National Bank building; cost \$40,000; 2-story, class A structure, built-up brick, veneer, fir interior finish, marble, three vaults.

**Wis., Bloomington**—Fire destroyed the following business places; Groom & Son, store, loss \$12,000, insured at \$8,500; Dr. Glasier office loss, \$4,500; Frank Reise, \$500.

**Wis., Chippewa Falls**—Preliminary plans have been received for the Lumberman's Bank building, J. W. Cady, architect, Chicago; tapestry brick and stone, 2-story, tile floors, marble walls and mahogany finish, three steel lined vaults; contracts not let yet; bids will be called for as soon as plans are approved.

**Wis., Green Bay**—Fire damaged following buildings, De-tienne Store, Fox building, Vander Zanden's jewelry store and several offices; loss about \$15,000; covered by insurance.

#### BIDS WANTED.

**Mont., Billings**—Bids will be received about March 10, for erection of warehouse for the Wells-Ordean-Stone Co., 33,000 feet square, floor space; brick.

**Neb., Newman Grove**—Bids will be received until March 9, 8 p. m., for erection of a 1-story brick building, for R. T. Cain; plans with owner, or with Architect Jas. C. Stitt, Norfolk, Neb.; check \$300.

## WATER WORKS

**Iowa, Marcus**—An election will be held March 12, to vote on issuance of \$25,000 bonds for water system; D. W. Towgood, mayor.

**Mont., Billings**—B. C. Lillis of Billings has finished surveying for \$20,000 water works system, at Fromberg, Mont., (P. O.); bonds to be voted at spring election.

**Wis., Bloomington**—The village board has engaged L. P. Wolf, C. E., St. Paul, Minn., to prepare plans for water works system, to cost between \$10,000 and \$12,000; M. F. Woodhouse, chairman, building committee.

**Wis., Mineral Point**—The common council has engaged Henry Kleinhammer, architect, Plattsville, Wis., to prepare plans for new pumping station and standpipe for municipal water works system.

**Wis., Sparta**—The American Gas Construction Co., (of Newton, Iowa) has petitioned the council for a franchise to lay about 15 miles of gas mains.

#### BIDS WANTED.

**Iowa, Sioux City**—Bids will be received until March 6, 10 a. m., for supplying the water department with supplies for improvements; check 5 per cent; Paul J. Wells, city clerk.

**Iowa, Yale**—Bids will be received until 8 p. m., March 15 for water works system, plans with town clerk; L. M. Swindler; check 10 per cent.

**Wis., Elkhorn**—Bids received until March 8, 5 p. m., for an artesian well 16-inch in diameter, 1,200 feet deep; check 10 per cent; plans at office of F. M. Gray, Jr., consulting engineers, No. 630 Merchants' & Manufacturers' Bank building, Milwaukee; Elkhorn Light & Water commission.

**Wis., Oconomowoc**—Bids will be received until March 10, 1 p. m., for water mains and appurtenances; check 5 per cent; J. Alex Stemper, city engineer.

**Wis., Oshkosh**—Bids received until 2 p. m., March 11, for water pipe hydrant and valves, pig lead, and brass fittings, for water department, as per plans with R. A. Hollister, chairman, board of public works.

#### CONTRACTS AWARDED.

**Minn., Gilbert**—Contract awarded to Crane-Ordway Co. of Duluth for pipe for new water works system.

**Minn., St. Cloud**—Contract awarded to the American Cast Iron Pipe Co. for pipe and fittings for the water works department, at \$1,735; and James B. Clow contract for connections, at \$1,053.

**Wis., Cameron**—Contract awarded to Amund Nelson, Cameron, Wis., at \$2.25 per inch, for a 8-inch tubular well; other bids were: J. F. McCarthy, Minneapolis, Minn., at \$2 per inch; Matt Holland, St. Paul, Minn., at \$3.50 per inch; M. T. Peterson, Madison, Wis., at \$4.50 per inch; E. M. Shelter, St. Paul, Minn., at \$3.25 per inch; J. J. Becker, Garner, Iowa, at \$2.50 per inch; Mow & Johnson, Rice Lake, Wis., at \$2.90 per inch.

## DRAINAGE AND IRRIGATION

(Culvert news in this department.)

**Iowa, Boone**—County board let contract as follows: district 116, work to Peter Christianson; 26-inch tile awarded to Plymouth Clay Products Co., Ft. Dodge; 22 and 28-inch tile to Hawkeye Construction Co.; drain 120 work to Peter Christianson; tile to Iowa Pipe & Tile Co., Des Moines; drain 123 work to Chas. Ericson of Ogden, Iowa; tile to Redfield Brick & Tile Co., Redfield, Iowa; No. 129 work to Wm. Thompson, of Boone, Iowa; tile to Vincent Clay & Products Co., Ft. Dodge; corrugated culvert to Ft. Dodge Culvert Co.

**Iowa, Humboldt**—Engineer has filed report on establishing drainage district 70 and a meeting will be held on March 12 to consider report; J. G. Devine, county auditor.

**Minn., Breckenridge**—Hearing March 11, on petition for ditch in towns of Andrea, Nilson and Connolly.

**Minn., Carlton**—Surveys for large judicial ditch system near Corona, will be completed in two weeks, total ditching 36 miles, Carlton, and 30 miles in St. Louis, contracts probably next summer; E. J. Burns, engineer, Carlton.

**Minn., Floodwood**—Surveying for Tivola drain system started, 18 miles; A. L. Dyer, engineer, Hibbing.

**Minn., Mankato**—County board decided to construct ditch 36, 7 miles, tile, Butternut Valley.

**Minn., Orivia**—Material required for county ditch 57, bids in 1 p. m., March 15; 3,110 feet 20-inch tile, average depth 5.5 feet; 5,200 feet 22-inch tile at 5.7 feet and 4,700 feet 24 inch, 7.7 feet and 11.75 feet; catch basin, cement bulkhead, outlet of tile, 3,510 cubic yards, scraper work; 400 feet 12-inch tile at 7.5 feet; estimated cost \$13,120; check 10 per cent; John Nargaard, engineer, Granite Falls; J. L. Johnson, county auditor.

**Minn., Roseau**—G. A. Ralph, consulting engineer, St. Paul, will prepare plans for judicial 21; ready for bids about June 1; all open, dredge work; road work; 15 bridges; 200 culverts; cost \$100,000.

**Minn., Roseau**—Hearing March 25 on petition for county ditch in Beaver and other townships; S. G. Bertilrud, county auditor.

**Minn., Spomer**—South portion ditch 26 awarded to subcontractors Henry Baumeister, A. Nordall, Carl Nordstrom; another part of Arthur Gormanson; A. V. Topping will make camp, direct building and install machinery, for early spring start.

#### BIDS WANTED.

**Iowa, Algona**—Bids received until March 10, on changing open ditch drain 5, to tile drain; 3,500 feet 24-inch, 2,600 feet 22-inch; 1,200 feet 20-inch, 2,900 feet 18-inch, one bulkhead, four intakes; check 10 per cent; E. H. Beardsley, auditor.

**Iowa, Carroll**—Bids will be received till 2 p. m., March 18, for furnishing of burnt clay or cement tile for drain 62; bids will also be received for excavating trenches, laying of tile and refilling of trenches; check for 10 per cent; plans and specifications on file in the office of the county auditor, Carroll, Iowa, or may be had from W. T. Ross, engineer.

**Iowa, Fort Dodge**—Bids for labor and material for construction, tile drain 190, were received March 3; estimated cost \$3,171.57; C. A. Snook is construction engineer, J. L. Hanrahan, county auditor.

**Minn., Fairfax**—Bids rejected county ditch 57, tile; Carl Christianson, \$15,082; D. C. Armstrong & Co., \$15,768; Frasser & Clarkson, Fairfax, Minn., \$14,900; bids too high; new bids opened March 15, 1 p. m.





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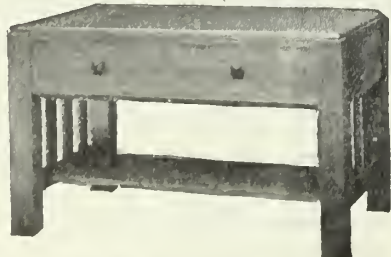


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**Minn., Mankato**—Bids received till 1:30 p. m., March 25, for county ditch 36; estimated, \$24,000; check 10 per cent; C. L. Kennedy, auditor, Blue Earth county.

**Minn., Ortonville**—Bids received till 2 p. m., March 13, for judicial 2; Geo. A. Ralph, engineer, Shubert building, St. Paul; estimate, 240,447 yards, \$30,000; highway bridge; check for 10 per cent. M. J. Parcher, county auditor.

#### CONTRACTS AWARDED.

**Minn., Blue Earth**—Contract let to Chas. Chestnut for county ditch 28, at \$7,556.

**Minn., Spooner**—Contract awarded Carl Erickson and Peter Nelson, for clearing and grubbing judicial ditch 27, by general contractor, Geo. E. Brown, Litchfield, Minn.

### SEWER WORK

**Iowa, Davenport**—City expects to take bids soon for sewer work; A. R. Boudinot, city engineer.

**Iowa, Fort Dodge**—Definite action probably taken soon on construction of a sewer system and septic tank, cost \$11,000; E. E. Carlson, civil engineer.

**Iowa, Spencer**—Hearing March 19, on construction of sewers in certain streets; Etta M. Smith, city clerk.

**Iowa, Woodbine**—Resolution of necessity passed for a sewer system; address city clerk.

**Minn., Crookston**—Sewer committee recommends a sewer in Hunter st. from Cromb to Bertha st., and in Bertha st. from Hunter st. to Holly av.; Lewis Ellington, city clerk.

**Minn., Duluth**—City commission has ordered a sewer in Peabody st., either contract or day labor; Roderick Murchison, commissioner.

**Minn., Mankato**—City is contemplating three blocks of sewer in the spring, 8-inch vitrified pipe; H. F. Blomquist, city engineer.

**Minn., Minneapolis**—A city sewer program for sewer construction involving an expenditure of nearly \$1,000,000 has been completed by the city sewer engineer, Carl Isstrup; it involves the work for two years, about 108,000 feet.

**Minn., Minneapolis**—Lateral sewers have been recommended in the various wards of the city amounting to \$155,484; the program for the years 1915-16 amounts to nearly \$1,000,000.

**Minn., Red Wing**—Estimate for proposed sewer system in East Red Wing is \$5,825; plans provide for sewer 6 feet deep at Green st. and 30 feet at Bluff st.; A. E. Rhame, city engineer.

**Mont. Bozeman**—City clerk has been instructed to advertise for bids for a sanitary sewer on West Story st. and 7th av.; address city clerk.

**N. D., Minot**—City engineer instructed to prepare plans for extension of sewers from 2d st., S. W. to east line of block 4, Ramstad's Riverview addition; A. D. Hagenstein, city auditor.

**Wis., Appleton**—Board of public works is advertising for following material for sewer system: 108 catch basins, 25 cast iron manhole covers, and 6 cast iron grated catch basin tops.

**Wis., Burlington**—Knights of Columbus have purchased property costing \$5,000, and will remodel at cost of \$3,000; address the secretary.

**Wis., Chippewa Falls**—City expects to ask for bids on sewer work in the spring, on East Grand av.; L. J. Felix, city clerk.

**Wis., Cudahy**—J. C. Dretzka ready to take bids on sewer main in Holmes av., 1,500 feet 12-inch tile; private plans.

**Wis., De Pere**—L. Alberts, city engineer, has been directed to prepare plans for an emergency sewer 200 feet long, 6x7, in Main av.; address city clerk.

**Wis., New London**—Hearing March 9 on plan for sewer work on Quincy st.; A. Meinhardt, chairman, board public works.

**Wis., New London**—Petition to council for sewer in Pine st. between Smith and Wyman sts.; C. J. Thompson, city clerk.

**Wis., Racine**—Announced that city will rescind contract formerly made for trunk sewer and soon take new bids; \$87,000; P. H. Connolly, city engineer.

#### BIDS WANTED.

**Ariz., Phoenix**—Bids received by Cato Sells, commissioner Indian Affairs, until 2 p. m., March 29, for sewer system at Indian school and sanitarium. Chas. W. Goodman, superintendent, Phoenix Indian school.

**Iowa, Leon**—Bids received by S. G. Mitchell, city clerk, until March 18, for sewer work comprising 11,047 feet 6-inch vitrified clay pipe, 31,158 feet 8-inch, 9,839 feet 10-inch, 2,018

feet 12-inch, 84 feet 8-inch, cast iron pipe, 684 feet 10-inch cast iron pipe, 72 feet 12-inch cast iron pipe, 178 feet piers for iron pipe, 117 manholes, 22 drop manholes, also Imhoff disposal plant and filter beds; M. G. Hall, engineer, Centerville, Iowa.

**Iowa, Onawa**—Bids received by Chas. L. Collins, city clerk, until 6 o'clock, p. m., March 9, for an outlet sanitary sewer, sewage disposal plant, etc., and for lateral sewers; check for \$1,000; Bruce & Standeven, engineers, Omaha, Neb.

**Iowa, Tripoli**—Bids will be taken about April 1, on sewer system to cost \$35,000; M. Tschirgi & Son, Cedar Rapids, Iowa, engineers; H. W. Bockhaus, town clerk.

**Kans., Osborne**—Bids received by city clerk, until 4 p. m., March 10, for a sewer system and disposal plant; check 5 per cent; plans on deposit of \$5; E. T. Archer & Co., consulting engineers, New England building, Kansas City, Mo.

**Minn., Brainerd**—Bids received by A. Mahlum, city clerk, until 8 p. m., April 5, for a lateral sewer in district No. 5; check for 15 per cent; also at same time, for a lateral sewer in district No. 4; check for 15 per cent.

**Minn., Duluth**—Bids received by Roderick Murchison, commissioner, until 10 a. m., March 8, for a sanitary sewer in the alley between Leicester and Kenilworth avs., etc.; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, city purchasing agent, until 10 a. m., March 15, for a sewer on Hall av. from Winifred st., 105 feet south; also, at same time, for a sewer on Stinson st. from Lexington av. to Oxford st. and on the east side of Lexington av. from Stinson to Front st.; also, at same time, for a sewer on Fairmount av., from Pascal av. to Snelling av. and on east side of Snelling av., from Fairmount av. to Cedar st.; also, at same time, for a sewer on Warwick st., etc.; also, at same time, for a sewer on Winslow av. from Wyoming to Annapolis st.; check in each case for 15 per cent.

**Wis., Superior**—Bids received by W. R. Russell, chairman, board public works, until 1 p. m., March 8, for a sewer in alley between Cumming and Baxter avs., etc.; check for 5 per cent.

**Wis., Wauwatosa**—Bids being received for 1 mile of storm and sanitary sewer in East Milwaukee av. and Hawley road; brick or concrete sewer, 42-inch in diameter; also, about 4,000 feet sewer in Otto av., from Greenleaf av. to 61st st. Address city clerk.

#### CONTRACTS AWARDED.

**Iowa, Audubon**—Contract to Fred Wyat, Council Bluffs, for lateral sewers at \$25,220, and to Ward & Weighton, Sioux City, for outlet sewers and disposal plant at \$10,992.

**Minn., Fairmont**—Contract to J. T. Rea, Tracy, Minn., for 26 blocks of sewers and about 40 blocks of water mains, at \$10,000.

**Wis., Milwaukee**—Contract to Jones & Erbach, Pittsburgh, Pa., for construction of sewer plan No. 9, at \$212,000; all bids on plan No. 10 held in abeyance.

**Wis., Oconomowoc**—Contract to Sweeney Brothers, Reedsburg, Wis., for sewer work at \$3,453.

**Wis., Sheboygan**—Contract to David Van Steele Co., city, for 10-inch Lincoln av. sewer at \$1,153; also to same for Union av. 10 and 12-inch sewer; and to Chas. A. Honold Co., Sheboygan, N. 11th st., 10-inch sewer at \$230.

### BRIDGES

(Culvert news in this department.)

**Iowa, Burlington**—A new highway bridge will be erected here.

**Iowa, Little Rock**—O'Brien county will build 25 bridges and culverts the next season; board of supervisors of Osceola county will build culverts and bridges by day work.

**Iowa, Lone Tree**—The \$10,000 steel bridge over the Iowa river between Louisa and Johnson counties, was washed away by high water.

**Iowa, Tipton**—Hearing March 9, on proposed bridge work for 1915, at estimated cost of \$22,618.

**Minn., Belle Plaine**—Geo. W. Busch, board of supervisors, has arranged to have bridges built at following places: steel bridge south of Keystone; concrete bridge at Greenhouse on Lincoln highway; concrete bridge near Trueblood pl., concrete bridge near Luzerne, and concrete bridge in N. W. township of Iowa.

**Minn., Bemidji**—Following contracts awarded by county commissioners: bridges numbers 1 and 2, to S. O. Larson, at \$543 and \$428; without approaches; bridge No. 4, S. O. Larson, at \$537; bridges Nos. 5 and 6, S. W. Ellis, at \$230 each; piling for bridge No. 1532, on state rural highway,



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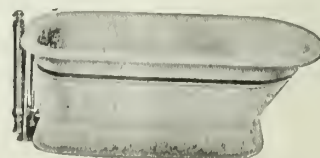


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**Minn., Blue Earth**—Petitions for two concrete bridges on highways in Foster township were accepted.

**Minn., Canby**—County board has authorized the engineer to prepare plans and specifications for bridge over Yellow Medicine river, township of Normaia; bids will be advertised for so action can be taken at next meeting of board on April 27th.

**Minn., Winona**—Following bids received on the high bridge here: low on concrete approach, O'Hagen & Lake Co.; Chicago, Ill., at \$95,900, bid on steel \$92,600; low bid on steel approach, Western Construction Co., La Crosse, Wis., at \$78,650; other bids: Koss Construction Co., Des Moines, Iowa, steel, \$118,000; concrete, \$149,000; General Construction Co., St. Paul, Minn., concrete, \$101,683; Pan Am. Bd. Co., New Castle, Ind., steel, \$90,820; Wisconsin Building & Iron Co., Milwaukee, steel, \$88,770; Grieling Brothers Co., Green Bay, Wis., steel, \$93,333, concrete \$112,280; Warden Allen Co., Milwaukee, steel, \$85,830; Gen. Stated Bdg. Co., Indianapolis, steel, \$79,650; John J. O'Heron Co., Chicago, Ill., concrete, \$100,500; A. Guthrie Co., St. Paul, Minn., steel, \$102,080, concrete, \$121,065; Widell Co., Mankato, Minn., concrete, \$107,750; Indiana Bridge Co., Muncie, Ind., steel, \$81,300; Bates & Rogers Con. Co., Chicago, concrete, \$128,995; Security Bridge Co., Minneapolis, steel, \$83,350; Illinois Steel & Bdg. Co., Jacksonville, Minn., steel, \$83,800; Milwaukee Bridge Co., Milwaukee, steel, \$83,846; Vincennes Bridge Co., Vincennes, Ind., steel, \$84,990; Gould Construction Co., Davenport, Iowa, concrete, \$107,700; Stupp Brothers Bdg. & Iron Co., Chicago, steel, \$86,000; L. P. Wolff, engineer, St. Paul, Minn.

**N. D., Minto**—Plans and specifications for bridges and culverts to be built and repaired by county were approved by board of county commissioners.

**Wis., Milwaukee**—Bridge department of the Chicago & Northwestern R. Co., is making preliminary plans for surveys at Sheboygan, Wis., Oshkosh and Manitowoc, Wis., and Green Bay, Wis., for replacement of stationary and draw bridge over local rivers with new bridges; estimated cost is \$200,000.

#### BIDS WANTED.

**Iowa, Anamosa**—Bids in March 2, 10 a. m. for construction of five bridges in Jones county, Nos. 107, 96, 108, 109 and 110; plans at office of county auditor, E. J. Hines, Jones county; check, 5 per cent.

**Iowa, Dubuque**—Bids received until 12 m., March 10, and opened at 2 p. m., same day, on a long list of items of bridge and culvert work in the county by the board of supervisors; 122 items ranging in estimated cost from \$54 to \$2,100; plans at office of County Auditor John Inghram; check for 5 per cent, bond for one-half contract price; all work let to be finished within 60 working days, reinforced and corrugated culverts; bridge 18, 40x16, pony-truss span; estimated cost \$1,800.

**Iowa, New Hampton**—Bids received 1:30 p. m. April 7, for five steel truss bridges and structural steel for 10 I-beam bridges; check, 5 per cent; plans at office of county auditor, P. E. McGinn, official advertisement in the Improvement Bulletin.

**Iowa, Northwood**—Bids received until March 5, 2 p. m., for corrugated culverts for 1915; address county auditor.

**Iowa, Primghar**—Bids received until March 9, 10 a. m., for construction of concrete bridges in O'Brien county, estimated costs from \$305 to \$2,466; plans at office of County Auditor J. B. Stamp, also with county engineer; check 5 per cent.

**Iowa, Shenandoah**—Bids in March, 2, 2:30 p. m. for construction and repair of bridges and culverts in Page county, I. H. Taggart, county engineer, C. W. Duke, county auditor; further information and specification on file at office of Improvement Bulletin.

**Minn., Bemidji**—Bids received until 10 a. m., March 15, for installing and hauling 8 culverts on judicial district 24, from Roosevelt station, average haul 9 miles; plans with city clerk of court, also at Norquist store, Roosevelt, or at C. R. Middleton's office, Baudette, Minn.; check 10 per cent; J. L. George, auditor; E. J. Bourgeois, engineer.

**Minn., Crookston**—Bids will be received until 2 p. m., Mar. 23, for metal and concrete culverts, sizes from 12 to 48 inches, during 1915; H. J. Welte, county auditor, Polk county.

**Minn., Delano**—Bids in March 3, 1:30 p. m., for corrugated metal culverts of various sizes, called for during 1915; Wright county.

**Minn., Ortonville**—Bids received until March 13, 2 p. m. for 30 corrugated metal culverts and one highway bridge on judicial ditch No. 2, Steele county. M. J. Parcher, county auditor, Geo. A. Ralph, engineer, Shubert building, St. Paul.

**Minn., Roseau**—Bids will be called for about June 1, for 15 bridges and 200 culverts on judicial ditch No. 21, Ros-

seau county, Geo. A. Ralph, consulting engineer, Shubert building, St. Paul, Minn.

**Minn., Roseau**—Bids will be received until March 24, 3 p. m., for building state bridge No. 1411, on state road No. 1, township of Norland, Roseau county; superstructure, 30-foot span, 16-foot roadway, reinforced concrete foundation; plans at office of highway commissioner, at St. Paul; check 5 per cent; S. G. Bertilrud, county auditor.

**Minn., Roseau**—Bids received until 3 p. m., March 24, for state bridge 1410 on state road No. 6, townships of Mickinock and Beaver, Roseau county, superstructure, 12-foot span, 16-foot roadway, reinforced concrete abutments; plans at office of highway commissioner, St. Paul, Minn.; check 5 per cent; S. G. Bertilrud, county auditor.

**Mont., Bozeman**—Bids received until 2 p. m., March 13, for steel for the following bridges: one 14-foot bridge, one 16-foot bridge; three 20-foot bridges, six 24-foot bridges; and one 32-foot bridge, price f. o. b. Bozeman; plans at office of Fred M. Brown, county surveyor; check 10 per cent; E. H. Schumacher, county clerk, Gallatin county.

**Neb., North Platte**—Bids received until March 17, 12 noon, for a new bridge over N. Platte river, two types of bridges to be bid on; reinforced concrete, architectural type with concrete abutments; on wooden piers; and high truss steel with concrete floors, on steel tubes, and concrete abutments, on steel and wooden piling.

#### CONTRACTS AWARDED.

**Iowa, Osage**—Contract awarded to the Clinton Bridge & Iron Works and furnishing reinforcing steel, rods, and I-beams and channels, for bridges.

**Minn., Mora**—Contracts awarded to the Wassau Iron Works of Wassau, Wis., for bridges over Snake river, bridge in Upper Peace, at No. 825; Snake river bridge at the Witt farm, at \$5,387; Southfork bridge, \$1,825.

**Minn., Winona**—Contract awarded to Wells & Dickey Co., Minneapolis, for \$90,000 to \$110,000 wagon bridge bonds.

**N. D., Grand Forks**—Contract awarded to the Grand Forks Concrete Co., for new bridge over river between Grand Forks and East Grand Forks, at \$11,195.

**S. D., Elk Point**—Contract awarded to the Western Bridge & Construction Co., for steel, concrete and wooden bridges and repairs work, etc., for 1915; Edward Holden, county auditor.

**S. D., Wakonda**—Contracts were awarded as follows on bridges for 1915: Federal Bridge Co., Des Moines, Iowa, low on steel and wood bridges and Ward & Weighton, for concrete bridges, of Sioux City, Iowa; J. T. Olson, county auditor.

**Wis., Hurley**—Contract awarded to the Hurley Steam Boiler Co., for two bridges; one across Layman's creek, in town of Oma, and one across Elm creek in town of Canby, near Kimball, at \$550 and \$1,600, steel and concrete abutments.

**Wis., Port Washington**—Contract awarded to Joseph Uebbing of Port Washington, Wis., for concrete bridge at Grand av.; contracts for two highway bridges in town of Mequon, to A. E. Abbel, Theinsville, Wis.

## STREET AND ROAD WORK

(Culvert news in this department.)

**Ill., Moline**—Board of local improvements will recommend an ordinance for paving 19th av. with asphalt from 1st to 16th sts., 24,700 square yards concrete base and curb; Lyle Layton, city clerk.

**Iowa, Davenport**—Decided to pave on 20 streets and 10 alleys at cost of \$24,500; part brick and part asphalt; address city clerk.

**Iowa, Marshalltown**—Bids probably taken on approximately 5 miles of sts. in April or May; address city clerk.

**Iowa, Mason City**—Hearing March 10, on paving and curbing on several sts.; J. H. McEwen, city clerk.

**Iowa, Vinton**—City engineer will submit plans and specifications on March 10, for paving portions of Concord and West Whipple sts.; address city clerk.

**Iowa, Walnut**—Plans in progress for about 6 blocks of paving; J. L. Bunker, city clerk.

**Iowa, Waterloo**—Hearing to be held March 22 on one mile of paving in down town business district; 6-inch concrete base with 2-inch wearing surface and 1-inch binder course of sheet asphalt, guaranteed for 5 years; address city clerk.

**Minn., Crookston**—The street and bridge committee recommend asphalt concrete paving on Hunter, Bertha, 4th, Main, Broadway, Elm, 7th and Hurlbut sts. and Central av., and the city engineer has been instructed to prepare plans and specifications and an estimate of the cost of the same; Lewis Ellington, city clerk.

**Wis., Jefferson**—Low bidder on concrete paving, bids open-



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ed Feb. 20, was L. Larsen of Oshkosh, and the detail was as follows: 4,200 cubic yards excavation at 38c, \$1,596; 4,400 lineal feet curb and gutter at 52c, \$2,288; 5,640 square yards brick paving at \$1.97, \$11,110; 4,640 square yards concrete paving at \$1.22½, \$5,684; 84 lineal feet retaining curb, at 26c, \$21.84; 240 lineal feet 12-inch sewer at 64c, \$153.60; 230 lineal feet 10-inch sewer at 59c, \$137.50; 10 catch basins at \$40, \$400; 2 manholes at \$40, \$80; total of \$21,471. If all the streets and alleys are to be of brick, the Defta Construction Co. of Escanaba was the low bidder, its detail being as follows: 4,200 cubic yards excavation at 45c, \$1,890; 4,400 lineal feet curb and gutter at 55c, \$2,420; 10,280 square yards brick paving at \$1.95, \$19,840; 84 lineal feet retaining curb at 40c, \$33.60; 240 lineal feet 12-inch sewer at 55c, \$132; 230 lineal feet 10-inch sewer at 55c, \$126.50; 10 catch basins at \$25, \$250; and 2 manholes at \$26, \$52, a total of \$24,744.

**Wis., Marshfield**—Plans about completed for 9 blocks of paving, 98 feet wide; will advertise for bids soon; John Seubert, city clerk.

**Wis., Racine**—Jas. Mutter, highway commissioner Racine county, will take bids latter part of March or first of April for concrete, gravel and macadam improvements to the amount of \$50,000.

**Wis., Sheboygan**—Lowest bidder for paving North st with concrete from Pennsylvania av. to Grant av. was Joseph Braun, city, who bid \$1.30 per square yard for concrete, 49c per yard for curb and gutter, and 25c per yard for re-setting curb and gutter.

**Wis., Wausau**—Cost of proposed brick pavement here will be about \$25,000; address city clerk.

#### BIDS WANTED.

**Iowa, Algona**—Bids received by E. H. Beardsley, auditor of Audubon county, until 10 a. m., March 12, for road work to be done in each surveyor district; check for \$50.

**Iowa, Marshalltown**—Bids received by W. E. Nicholson, commissioner public safety, until 9 a. m., March 22, for improving street intersections on certain business streets by raising the pavement where sidewalks intersect, building in cement culverts, etc.; check for \$100.

**Iowa, Perry**—Bids received by Chas. E. Wilson, civil engineer, until 8 p. m., March 11, for construction of paving of one of the following materials, with the necessary curb and gutter, and grading: bitulithic, 11,200 square yards; concrete, 12,800 square yards; vitrified brick block, 11,200 square yards; bituminous concrete, 11,250 square yards; sheet asphalt, 11,250 square yards, vertical fibre block, 11,250 square yards; creosoted wood block, 11,250 square yards; dollarway, 12,800 square yards; work will be awarded at 8 p. m., March 12; work to be completed by Oct. 1; check for \$1,600 on Perry bank.

**Iowa, Clarinda**—Bids received by T. A. Wilson, city manager, until March 15, for approximately 27,100 square yards of pavement and 18,000 feet of curb, bids to be taken on asphaltic concrete and on concrete; plans on file with the city manager and with M. G. Hall, engineer, Centerville, Iowa.

**Minn., Duluth**—Bids on furnishing the city with a concrete mixer were as follows: Standard Salt & Cement Co., gas engine, \$1,040, steam engine, \$1,130; Thompson-Williams Co., \$1,815; Medium Hollow Block Machine Co., \$1,650; J. L. Smith Co. of Milwaukee, \$1,495; Chain Belt Co., ten bids ranging from \$1,585 to \$2,260; Minneapolis Equipment Co., \$1,215; Koehring Machine Co., \$1,975; Robinson, Cary & Sands Co., gas, \$1,325, steam, \$1,580; Kent Machine Co., gas engine, \$865, steam, \$910; Milwaukee Concrete Mixer Co., \$1,795.

**Minn., Duluth**—Bids received by Roderick Murchison, commissioner, until 10 a. m., March 12, for furnishing 200,000 gallons, more or less, of road oil, f. o. b. Duluth; check for 10 per cent.

**Minn., Duluth**—Bids received by C. S. Palmer, city clerk, until 11 a. m., March 5, for iron pipe and fittings, gas curb boxes, lead pipe and solder.

**Minn., Granite Falls**—The county board ordered that the auditor advertise for bids for three road graders; S. O. Tjosvold, auditor of Yellow Medicine county.

**Minn., Minneapolis**—Bids received by Al. P. Erickson, county auditor, until 11 a. m., March 15, for grading and macadamizing road No. 29, contract 2, village of Richfield, town of Bloomington; check 5 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 15, for 3,500 cubic yards asphalt sand and 4,500 cubic yards screen sand; also, at same time, for 1,000 tons limestone dust, 1,000 tons 3-8 inch binder stone, 950 cubic yards crushed limestone, 41 cars crushed granite, 13,000 cubic yards 1½-inch crushed rock; check on cash, 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 15, for grading and improvement of Adcade st. from Fremont to E. 4th st.; also, at

same time, for grading and improvement of Lewis & Mabon's addition in block 10, from Westminster st. to Arkwright st.

**Mont., Miles City**—Bids received by J. E. Farnum, city clerk, until noon, March 8, for one 750-gallon steel tank sprinkling wagon with foot control, f. o. b. Miles City; check 10 per cent.

**S. D., Leola**—Bids received by J. B. Wittmayer, auditor, McPherson county, until 3 p. m., April 6, for grading highways for 1915; bond for 20 per cent.

**S. D., Leola**—Bids received by J. R. Wittmayer, auditor of McPherson county, until 3 p. m., April 6, for galvanized corrugated steel culverts, 12 to 72-inch in diameter; check for \$200.

**S. D., McIntosh**—Bids received by Rudolph Jager, county surveyor, until 2 p. m., April 7, for county highway grading.

**S. D., Vermillion**—Bids received by J. T. Olson, county auditor, until 10 a. m., March 24, for one or two heavy road graders for the use of Clay county.

**Wis., Crookston**—Bids received by H. J. Welte, auditor of Polk county, until 10 a. m., March 23, for dragging and mowing grass and weeds on about 60 miles of roads; bond for \$500 from successful bidder.

**Wis., Richland Center**—Bids received by A. D. German, chairman, committee on public works, at office of Rueben Sutton, city clerk, until 4 p. m., March 19, for a reinforced concrete pavement, a tar macadam pavement, an asphalt pavement, and waterbound macadam pavement on the highway leading to Sextonville; \$15,000 being available; E. J. Lunenschloss, city engineer.

**Wis., Watertown**—Bids received by board of public works until 2 p. m., March 9, for 5,150 square yards reinforced concrete paving and 3,735 lineal feet combined curb and gutter and 1,057 cubic yards excavating.

**Wis., Waukesha**—Ready for bids for paving 3 or 4 blocks on Beechwood av., about March 1; Wm. Powrie, city clerk.

#### CONTRACTS AWARDED.

**Ill., Rock Island**—Contract for paving awarded as follows: sidewalks to W. F. Evans, at \$11,540; 28th st. with brick and Highland Park av., to Independent Construction Co., Davenport, Iowa, at \$2.22 per square yard; total cost about \$28,000, and 18th av. with brick, to Tri-State Construction Co., at \$2.22 per square yard, or a total of about \$25,000.

**Iowa, Cedar Rapids**—Contract to F. K. Hahn, city, for sidewalks, river wall and stairs, at \$31,237; other bidders were Guarantee Construction Co., city, \$44,969; R. A. Wallace, city, \$36,000; Gould Construction Co., Davenport, Iowa; Boone Construction Co., Boone, Iowa, \$37,931; Cedar Rapids Construction Co., city, \$40,920.

**Iowa, Des Moines**—Contract to Des Moines Asphalt Paving Co. for asphalt paving on 3d st. at \$1.89, and for asphaltic concrete on 21st st. at \$1.73; also, contract to Akin & Fluther Co. for brick paving on Vine st. at \$1.97.

**Iowa, Fort Madison**—Contract to Atlee Co., city, for cement, at \$1.7 per barrel, with an allowance of 10c per sack or 40c per barrel; making the net price \$1.17.

**Iowa, Mason City**—Contract to Bryant Asphalt Paving Co., Waterloo, Iowa, for 67,000 yards asphalt paving at \$1.59 and curb at 35c; other bidders were Hanlon & Oakes, Sioux City, Iowa, 9,000 yards reinforced concrete at \$1.44, curb at 33c; also, bids by Western Construction Co., Iowa City, Iowa, McCarthy Imp. Co., Davenport, Iowa; Widell Co., Mankato, Minn.; Des Moines Asphalt Paving Co., Des Moines, Iowa.

**Minn., Blue Earth**—Contract to Russell Grader Manufacturing Co., Minneapolis, Minn., for 6 "Russell Junior" graders, weight 1,500 pounds; flanged wheels, each f. o. b. any point in the county, \$110 each, subject to satisfactory trial; other bidders were as follows: Austin-Western Co., by A. O. Ekberg, "Little Western Grader," complete weight 1,400 pounds \$130 f. o. b. any point in county; Good Roads Machine Co., per Barnes, Briggs & Barnes, "Little Winner," complete weight 1,630 pounds, in lots of six or more, Blue Earth or Winnebago, \$135 each, Wells \$137.50; Chamberlain Road Machine Co., six "Junior" complete weight 1,570 pounds, net \$96.25 each, delivered; Galion Iron Works & Manufacturing Co., by D. B. Holly, six "Little Imperial" graders, weight 900 pounds, \$500, six "Little Premier" graders, weight 1,200 pounds, \$750, six "Little Ideal" graders, weight 1,600 pounds, \$900; Edwards Co., by T. J. Ziemer, eight road graders, weight 1,480 pounds.

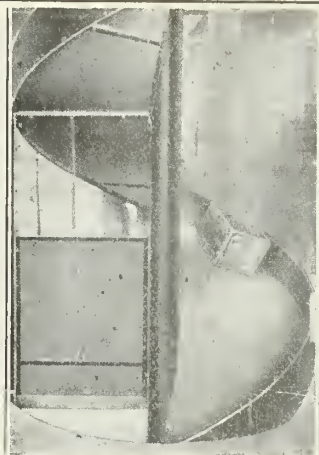
**Minn., Duluth**—Contract to American Cast Iron Pipe Co. for 132 lineal feet 20-inch cast iron pipe at \$26.89 f. o. b. Duluth, and to the Barber Asphalt Paving Co., for a 5-ton tandem roller at \$1,581, less 2 per cent.

**Minn., Ivanhoe**—Contract to Lamoreaux Brothers Co., Omaha, Neb., for jobs 1, 2, and 3, of state road No. 1, town of Royal and Marble.

**Minn., Le Sueur**—Contract with the Austin Western Co. for a 600 gallon sprinkler at \$12, f. o. b. factory.

**Minn., Little Falls**—Contract to R. P. Albert, Onamia, for clearing and grubbing 4 miles of state road No. 3, at \$947.





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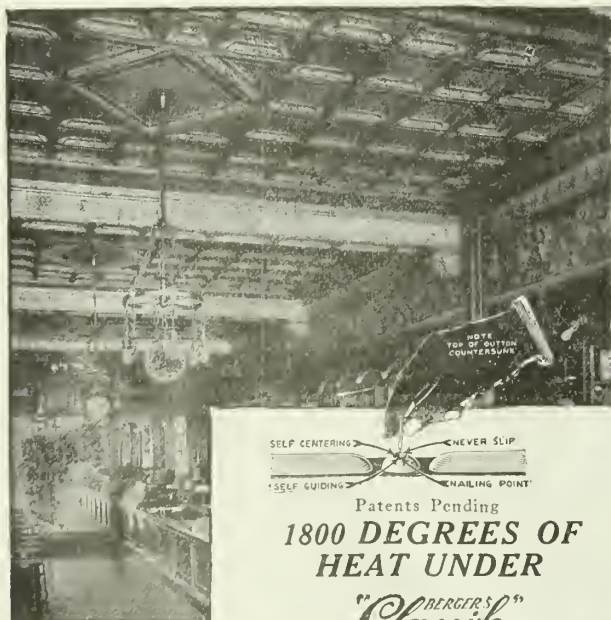
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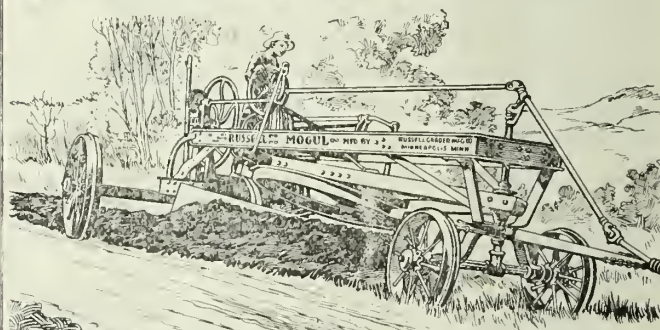
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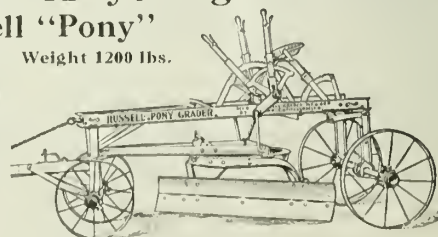
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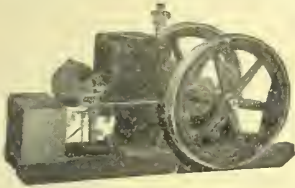
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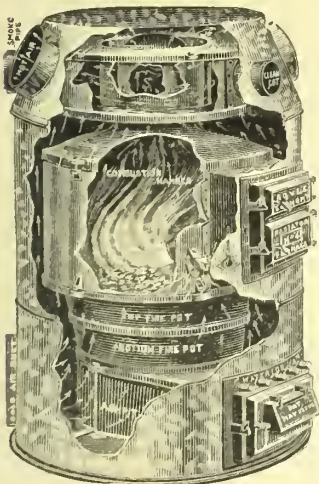
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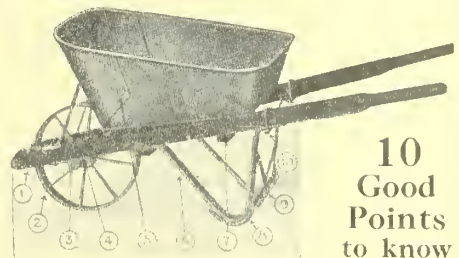
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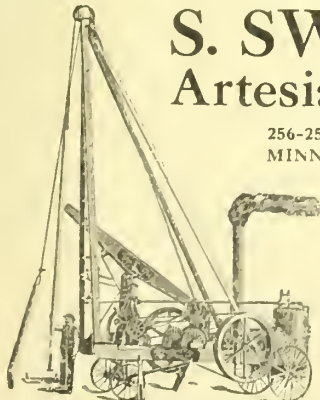
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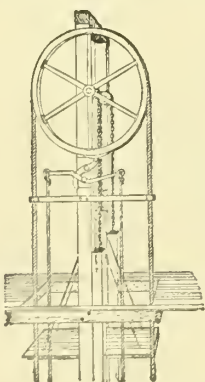
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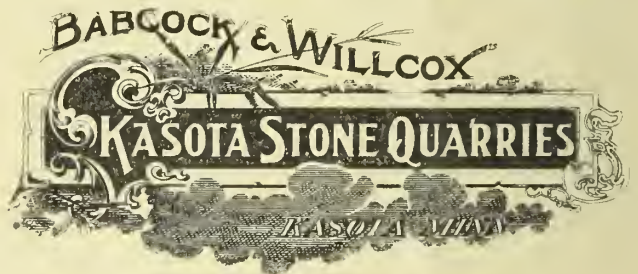
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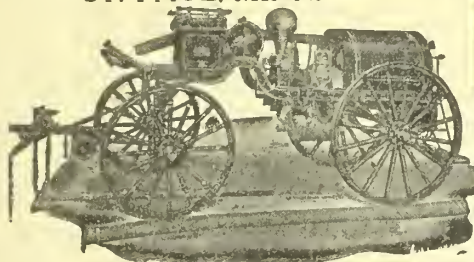
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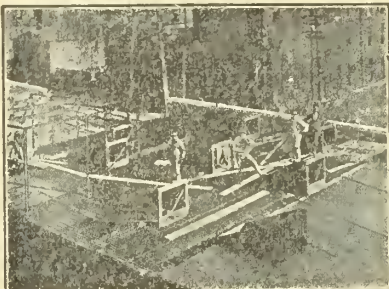
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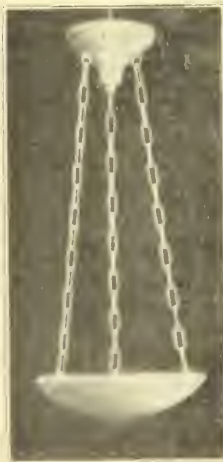
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., March 13, 1915.

Number 15

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Hasey Heating Co., Minneapolis, Minn.  
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Chaska Brick & Tile Co., St. Paul, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
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Flint Brick Co., Des Moines, Ia.  
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Haakinson & Beatty Co., Sioux City, Iowa  
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Corrugated Bar Co., St. Paul, Minn.  
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Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
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St. Paul Foundry Co., St. Paul, Minn.

**CEILING, STEEL.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Canton Steel Ceiling Co., Minneapolis, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis  
H. C. Thomas & Bro., La Crosse, Wis.

**CEMENT FILLER.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**COAL CHUTES.**  
American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Fowler & Pay, Mankato, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**COLD STORAGE PLANTS.**  
Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.

**CONCRETE CONSTRUCTION.**  
Avery Steel & Iron Co., Minneapolis  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

**CONTRACTORS LEVELS AND SUPPLIES.**  
David White Co., Milwaukee, Wis.

**CONCRETE MACHINERY.**  
Atlas Engineering Co., Milwaukee, Wis.  
Badger Concrete Mixer Co., Milwaukee, Wis.  
Brasstad Concrete Mach. Co., Canton, S. D.  
Cement Tile Machinery Co., Waterloo, Ia.  
Chain Belt Co., Milwaukee, Wis.  
Contractors Machinery Co., Keokuk, Iowa  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
The Lansing Co., Minneapolis, Minn.  
N. W. Concrete Steel Co., Minneapolis  
Raymer Hardware Co., St. Paul, Minn.  
The T. L. Smith Co., Milwaukee, Wis.  
N. W. Steel & Iron Works, Eau Claire, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.  
Chas. H. Stebling Co., Milwaukee, Wis.  
Waterloo Cement Machinery Co., Waterloo, Iowa  
Ellis Woolman, Minneapolis, Minn.  
E. Wege Concrete Machinery Co., La Crosse, Wis.

**CONCRETE REINFORCING BARS.**  
Avery Steel & Iron Co., Minneapolis  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**CORNICES.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

**CORRUGATED IRON, ETC.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Avery Steel & Iron Co., Minneapolis  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.

**CONCRETE REINFORCING.**  
Berger Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

**CONTRACTORS' SUPPLIES AND MACHINERY.**  
Decker Hardware Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Ellis Woolman, Minneapolis, Minn.

**CULVERTS.**  
Berger Mfg. Co., Minneapolis, Minn.  
Piesanz Stone Co., Winona, Minn.  
Gallon Iron Works, Minneapolis, Minn.  
Klauser Mfg. Co., Duquaque, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.

**CRUSHED STONE.**  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Duquaque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Widell Co., Mankato, Minn.

**DEADENING MATERIAL.**  
Cement Tile Machinery Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

**DECORATIONS.**  
Odin J. Oyen, La Crosse, Wis.

**DITCHING MACHINES.**  
Bay City Dredge Works, Bay City, Mich.  
United Iron Works, Springfield, Mo.

**DREDGES.**  
Bay City Dredge Works, Bay City, Mich.

**ELECTRICAL ENGINEERING.**  
Beck Electrical Construction Company, Minneapolis, Minn.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

**ELECTRIC MOTORS AND SUPPLIES.**  
Beck Electrical Construction Company, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.

**ELEVATORS AND ENCLOSURES.**  
Kimball Bros Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

**ELEVATOR CABS.**  
N. W. Fixture & Cabinet Co., Mpls., Minn.

**ENGINEERS.**  
Oscar Claussen Engineering Co., St. Paul, Minn.  
Walter H. Flood, Chicago, Ill.  
Lewis A. Larsen, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

**EXCAVATORS.**  
Bay City Dredge Works, Bay City, Mich.

**FIRE ESCAPES.**  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**FIRE HYDRANTS.**  
Waterous Engine Works Co., St. Paul, Minn.

**FIREPROOF DOORS.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Thorp Fireproof Door Co., Minneapolis, Minn.

**FLUE LINING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Lime Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

**FIRE PROTECTION APPARATUS.**  
Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

**FIREPROOFING DOORS AND SHUTTERS.**  
Haakinson & Beatty Co., Sioux City, Iowa  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

**FLOORING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Fama Stonewood Co., Minneapolis  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graff Lumber Co., Duluth, Minn.  
Northland Pine Co., Minneapolis, Minn.  
I. Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.

**FLOOR SURFACING MACHINES.**  
M. L. Schluter, Chicago, Ill.

**FURNACES.**  
Bovee Furnace Works, Waterloo, Iowa  
Gibson Mfg. Co., Waterloo, Iowa

**FURRING.**  
Corrugated Bar Co., St. Paul, Minn.

**GAS AND ELECTRICAL FIXTURES.**  
Jerdee & Hendrickson, Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

**GLASS.**  
American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis, Minn.  
Minnesota Glass Co., St. Paul, Minn.

**GRAVITY CARRIER.**  
Minnesota Manufacturers' Association, North St. Paul, Minn.

**GREENHOUSES AND GLASS STRUCTURES.**  
W. H. Lutton Co., Minneapolis, Minn.

**HARDWARE TRIMMINGS.**  
Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

**HEAT REGULATORS.**  
Andrews Heating Co., Minneapolis, Minn.

**HEATING AND VENTILATING.**  
Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

**HOISTS.**  
H. W. Johns-Manville Co., Minneapolis  
Koehring Machine Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**HOSE.**  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Waterous Engine Works Co., St. Paul, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

## INSULATING MATERIAL.

Haakinson & Beatty Co.....Sioux City, Iowa  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co.....St. Paul  
W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
Union Fibre Co.....Winona, Minn.

## INSURANCE.

Fred L. Gray Co.....Minneapolis, Minn.  
Hood & Matschke.....Minneapolis, Minn.  
W. B. Joyce Co.....Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Clinton Bridge Works.....Clinton, Ia.  
Crown Iron Works.....Minneapolis, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Des Moines Structural Steel Works.....Des Moines, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
N. W. Concrete Steel Co.....Minneapolis, Minn.  
St. Paul Foundry Co.....St. Paul, Minn.  
E. J. Voggenthaler Co.....Dubuque, Ia.  
Youngstown Iron & Steel Co.....Minneapolis, Minn.

## JOIST HANGERS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis, Minn.  
Crown Iron Works Co.....Minneapolis  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
Northwestern Concrete Steel Co.....St. Paul Foundry Co.....St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co.....Chicago, Ill.

## LIME.

General Western Material Co.....Waterloo, Ia.  
Fowler & Pay.....Mankato, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Landers-Morrison-Christenson Co.....Minneapolis, Minn.  
Gust Lillyblad.....Rod Wing, Minn.  
Shakopee Cement Lime Manufacturing Co.....St. Paul, Minn.  
Speakes Lime & Cement Co.....Superior, Wis.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.  
The Northwestern Lime Co.....St. Paul, Minn.

## MANTELS—GRATES.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co.....Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co.....Duluth, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
N. W. Marble & Tile Co.....Minneapolis, Minn.  
Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa  
W. S. Nott Company.....Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co.....Minneapolis  
Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.  
Berger Mfg. Co.....Minneapolis, Minn.  
Corrugated Bar Co.....St. Paul, Minn.  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.  
Northwestern Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co.....Duluth, Minn.  
Osgood-Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation.....Iowa City, Iowa  
Standard Salt & Cement Co.....Duluth, Minn.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co.....Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis  
Builders Iron Works Co.....Minneapolis and St. Paul, Minn.  
Crown Iron Works Co.....Minneapolis  
Des Moines Bridge & Iron Co.....Des Moines, Iowa  
Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....St. Paul, Minn.  
Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co.....Minneapolis, Minn.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis  
Rickertson Mineral Paint Works.....Milwaukee, Wis.

## PACKINGS AND HOSE.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co.....New York, N. Y.

## PIPE—CAST IRON.

American Cast Iron Pipe Co.....Minneapolis

## PIPE AND BOILER COVERING.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company.....Minneapolis, Minn.

## PLASTER—WALL.

Fowler & Pay.....Mankato, Minn.  
General Western Material Co.....Waterloo, Ia.  
Hydraulic Press Brick Co.....Minneapolis, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co.....Fort Dodge, Ia.  
Shakopee Cement Lime Co.....St. Paul, Minn.  
Northland Pine Co.....Minneapolis, Minn.  
St. Paul Lime & Cement Co.....St. Paul, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## PLASTERING—ORNAMENTAL.

Monarch Co.....St. Paul, Minn.  
Roy Curtis.....Duluth, Minn.

## PLASTERERS' SPECIALTIES.

Hydraulic Press Brick Co.....Minneapolis, Minn.

## PLASTIC ORNAMENTS.

Monarch Co.....St. Paul, Minn.  
K. F. Lott & Co.....Mpls. and St. Paul, Minn.

## PRINTING.

Farnham Printing Co.....Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co.....Chicago, Ill.  
Crown Iron Works Co.....Minneapolis

## PLUMBING AND HEATING JOBBERS.

National Mfg. & Supply Co.....Mpls., Minn.

## POWER PLANTS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

## REVOLVING DOORS.

Van Kannel Revolving Door Co.....St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works.....Minneapolis, Minn.  
Russell Grader Mfg. Co.....Minneapolis, Minn.

## ROOFING GRAVEL AND ASPHALT.

Griffin & Boehme.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

Krieger-Jamar Co.....Duluth, Minn.  
Minnesota Roofing & Cornice Works.....St. Paul, Minn.

Northwestern Lime Co.....St. Paul, Minn.  
Scribner-Libby Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.  
Selden Roofing & Manufacturing Co.....Minneapolis, Minn.

## ROOFING—METAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Duluth Corrugating & Roofing Co.....Duluth, Minn.

Gardner Hardware Co.....Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co.....Minneapolis, Minn.

W. S. Nott Company.....Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornamental Co.....St. Paul, Minn.

N. W. Roofing, Cornice & Stamping Works.....Minneapolis, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Barrett Mfg. Co.....New York, N. Y.  
Biesanz Stone Co.....Winona, Minn.

Corrugated Bar Co.....St. Paul, Minn.  
General Western Material Co.....Waterloo, Ia.

Hydraulic Press Brick Co.....Minneapolis, Minn.  
John Leslie Paper Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

W. S. Nott Company.....Minneapolis, Minn.  
Northland Pine Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## ROOFING AND SIDING—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.

Inland Steel Co.....St. Paul, Minn.  
H. W. Johns-Manville Co.....Minneapolis

Humboldt Sand & Gravel Co.....Humboldt, Ia.  
Mason City Sand & Gravel Co.....Mason City, Ia.

## SHINGLES—RUBBER.

W. S. Nott Company.....Minneapolis, Minn.  
Standard Salt & Cement Co.....Duluth, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co.....Minneapolis, Minn.  
Inland Steel Co.....St. Paul, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co.....Winona, Minn.  
General Western Material Co.....Waterloo, Ia.

Standard Salt & Cement Co.....Duluth, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co.....Duluth, Minn.  
Carr-Cullen Co.....Minneapolis, Minn.

Osgood & Blodgett Mfg. Co.....St. Paul, Minn.  
Scott-Graff Lumber Co.....Duluth, Minn.

Northland Pine Co.....Minneapolis, Minn.

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co.....Sioux City, Iowa  
Iowa Sewer Pipe & Tile Co.....Des Moines, Ia.

Lehigh Sewer Pipe & Tile Co.....Fort Dodge, Iowa  
Northwestern Lime Co.....St. Paul, Minn.

Plymouth Clay Products Co.....Fort Dodge, Iowa  
Red Wing Sewer Pipe Co.....Red Wing, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

St. Paul Foundry Co.....St. Paul, Minn.

## SHADE ADJUSTERS.

Wm. J. Work.....St. Paul, Minn.

## SHEETS—IRON AND STEEL.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Berger Mfg. Co.....Minneapolis, Minn.  
Gardner Hardware Co.....Minneapolis, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.

## SIDEWALK LIGHTS.

American Luxfer Prism Co.....Chicago, Ill.

Avery Steel & Iron Co.....Minneapolis  
Crown Iron Works Co.....Minneapolis

Berger Mfg. Co.....Minneapolis, Minn.  
General Western Material Co.....Waterloo, Ia.

Haakinson & Beatty Co.....Sioux City, Iowa  
K. F. Lott & Co.....St. Paul and Minneapolis, Minn.

## SLATE BLACKBOARDS.

Haakinson & Beatty Co.....Sioux City, Iowa

Peerless Marble & Tile Co.....Minneapolis  
Twin City Tile & Marble Co.....Minneapolis

## SKYLIGHTS.

Badger Steel Roofing & Corrugating Co.....La Crosse, Wis.

Haakinson & Beatty Co.....Sioux City, Iowa  
Krieger-Jamar Co.....Duluth, Minn.

St. Paul Roofing, Cornice & Ornament Co.....St. Paul, Minn.

H. C. Thomas & Bro.....La Crosse, Wis.

## STACK LINING.

H. W. Johns-Manville Co.....Minneapolis  
W. S. Nott Company.....Minneapolis, Minn.

## STEEL—BARS.

American Bridge Co.....Minneapolis, Minn.  
Avery Steel & Iron Co.....Minneapolis

Haakinson & Beatty Co.....Sioux City, Iowa  
Inland Steel Co.....St. Paul, Minn.

Twin City Tile & Marble Co.....Mpls., Minn.

## STONE.

Babcock & Wilcox.....Kasota, Minn.  
Biesanz Stone Co.....Winona, Minn.

Breen Stone Co.....St. Paul, Minn.  
Edw. Edinger Co.....Cedar Rapids, Ia.

Fowler & Pay.....Mankato, Minn.  
Kettle River Co.....Minneapolis, Minn.

Duluth Cut Stone Co.....Duluth, Minn.  
Mantorville Stone Co.....Mantorville, Minn.

New Ulm Stone Co.....New Ulm, Minn.  
Pioneer Granite Co.....St. Cloud, Minn.

Sauk Rapids Granite Co.....Sauk Rapids, Minn.

Wm. Penn Stone Co.....Minneapolis, Minn.

The Widell Co.....Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.  
American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

Inland Steel Co.....St. Paul, Minn.  
Haakinson & Beatty Co.....Sioux City, Iowa

## TANKS—STEEL.

American Bridge Co.....Minneapolis, Minn.

Avery Steel & Iron Co.....Minneapolis  
Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Mach. Co.....Mpls., Minn.  
St. Paul Foundry Co.....St. Paul, Minn.

## TERRA COTTA.

Belt Line Brick Co.....Mpls. and St. Paul

General Western Material Co.....Waterloo, Ia.  
Haakinson & Beatty Co.....Sioux City, Iowa

Hydraulic Press Brick Co.....Minneapolis, Minn.  
Johnson, Jackson & Corning.....Minneapolis and St. Paul, Minn.

K. F. Lott & Co.....Minneapolis and St. Paul, Minn.

## THEATER EQUIPMENT.

The Monarch Co.....St. Paul, Minn.

TILE—CLAY—PARTITION AND FLOOR.  
Hydraulic Press Brick Co.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## VARNISHES.

Gardner Hardware Co.....Minneapolis, Minn.

North Star Varnish Co.....Minneapolis, Minn.

Twin City Varnish Co.....St. Paul, Minn.

## VALVES.

Crane Co.....Minneapolis, Minn.

Crane & Orday.....St. Paul, Minn.

Mechanical Specialty Co.....St. Paul, Minn.

## VENTILATING SYSTEMS.

Arex Company.....Chicago, Ill.

Hackney Ventilating Co.....Minneapolis, Minn.

J. C. Kernchen.....Chicago, Ill.  
G. A. Turner.....Minneapolis, Minn.

## WALL BEDS.

Northwestern Bedding Co.....St. Paul, Minn.

## WATERPROOFING.

General Western Material Co.....Waterloo, Ia.

Gardner Hardware Co.....Minneapolis, Minn.

Hydraulic Press Brick Co.....Minneapolis, Minn.

H. W. Johns-Manville Co.....Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co.....St. Paul, Minn.

W. S. Nott Company.....Minneapolis, Minn.

Standard Salt & Cement Co.....Duluth, Minn.

## WATER TOWERS, STEEL.

American Bridge Co.....Minneapolis, Minn.

Des Moines Bridge & Iron Co.....Des Moines, Iowa

Minneapolis Steel & Machinery Co.....St. Paul, Minn.

St. Paul Foundry Co.....St. Paul, Minn.

WATER WORKS EQUIPMENT.  
Waterous Engine Works Co.....St. Paul, Minn.

## WHEELBARROWS.

Sterling Wheelbarrow Co.....Milwaukee, Wis.

Raymer Hardware Co.....St. Paul, Minn.

## WIRE AND IRON WORKS.

Builders Iron Works.....Minneapolis and St. Paul, Minn.

Haakinson & Beatty Co.....Sioux City, Iowa  
Midway Ornamental Iron Works.....St. Paul, Minn.

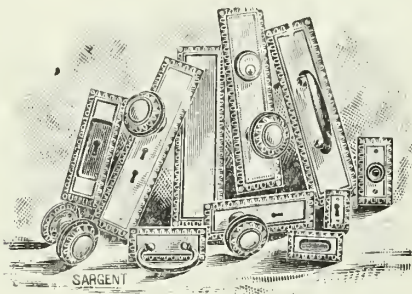


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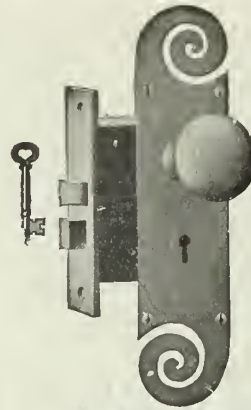
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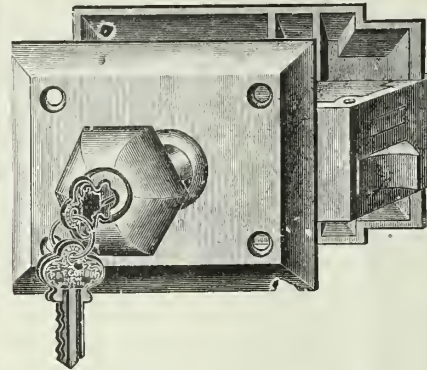
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, MARCH 13, 1915

NUMBER 15

## EDITORIAL

O. L. COLBURN, Editor

### A MOVE FOR PERMITS IN ADVANCE.

Simultaneous efforts are being made by city officials of two western cities to have all building permits taken out in advance of any work on the structure. In St. Paul, Commissioner Nash, made a speech to members of the Builders' Exchange in which he said that he felt that all permits should be issued in advance. He did not think that the service of the building department to the taxpayers was what it should be while contractors, or owners, delayed taking out the permit until the interior finish was going on, or the family ready to move in. Mr. Nash's predecessor made an effort in this direction which had some good effect on the St. Paul permit book for a time. Mr. Nash means much more than he expressed to the members of the St. Paul Exchange, in fact he intends to apply pressure steadily until a St. Paul permit is just what its name indicates, and not a merry little quip of completion.

Mayor Saul and City Engineer Blake of Dubuque are on the trail of the permit delinquents. A report from that city states that the officials are prepared to demand absolute compliance with the ordinance requiring building permits before the construction of buildings are started. For years it is said, contractors and property owners have done much as they pleased about the construction of buildings, the material to be used. Now Mayor Saul and Engineer Blake propose that all buildings constructed in the city shall conform to rules laid down in the ordinance. No favors will be shown, it is announced. If a contractor or property owner starts work without the necessary permit a halt will be called and penalties will be imposed.

A city official talking about the Dubuque building permits is quoted as follows:

"It is about time the city was taking things in hand. No one in the city has a right to build anything without the permission of the city engineer. We will demand observance of the ordinance for the protection of the people of the entire city, because we never know where some one may want to construct a building, nor of what material. The ordinance must be observed, and closely, in the future."

Investigation by Commissioner Nash of St. Paul, revealed some facts to him which added vigor, if possible, to his original determination to correct the permit practices. Instances discovered by him seemed to indicate that it was possible for a citizen to regard himself as immune, so far as the city building ordinance were concerned, and to proceed successfully under his assumption to the extent of not taking out any permit at all.

Accordingly the commissioner has caused to be sent out 1,000 notices to all kinds of contractors as follows:

"Dear Sir: It will be the policy of this department under the present administration to enforce compliance with the Building Ordinances pertaining to the granting of permits for erection or alteration of buildings, and inspection of the work and materials, to the end that same shall conform to the plans and specifications which hereafter must be filed in this office before construction work begins. Please make note of this and govern yourself accordingly."

Supplementing this Mr. Nash secured through Commissioner McColl, an order to the policemen of St. Paul requiring them to note and report any and all new construction work on their beats. These reports will be checked up with the permits issued and the tardy builders promptly notified.

It needs no argument to make it clear that unless building permits are issued in advance the efforts of the people to protect themselves through building inspection fails. A permit after a building is up is a brilliant achievement in improved city government. It makes the law a dead letter.

### ST. LOUIS QUANTITY SURVEYOR LAW.

Following a campaign by civil engineers of St. Louis through their organization, the city assembly, passed an ordinance authorizing the mayor, with the approval of the council, to appoint quantity surveyors. The number is not limited. The appointees must be skilled in building construction or estimating. They must give bonds in \$10,000. Patrons of quantity surveyors, who sustain loss by reason of their negligence, incompetence or misconduct can sue on the bond any time in five years. The appointments hold for four years. The charges authorized are the fees agreed upon between surveyor and clients, until a list of fees can be prepared by the Engineers' club, St. Louis chapter, A. I. A., and the Building Industries Association.

Thus is introduced the system which has been so much talked of by architects, engineers and builders; and so much discussed in their journals, during recent years. The results of the St. Louis law will be awaited with lively interest by the users of the old competitive system of bidding for contracts.

The success of the departure at St. Louis would mean the appearance of a new class of experts in the building field of the city.

Supplementing the ordinance of St. Louis, or reinforcing it, a state law is being prepared requiring a detailed quantity list with very architectural and engineering plan.

This action by the friends of quantity surveying to tie up the state to it shows determination at least. Needless to say there is conservative sentiment in favor of going slow.

English contractors, we understand, like to do business with architects who employ quantity surveyors because the "list" relieves the contractor from the expense and trouble of the estimators' department. If the contractors like the simplified transaction there, it is reasonable to suppose that they will here.

### NOTES OF THE WEEK.

Gov. Hanna of North Dakota has approved the Englund bill placing telephone companies under the control of the board of railroad commissioners, giving said board power to compel physical connections between telephone systems, and to regulate rates and charges of such companies.

The bill introduced by Senator Gillam of Windom, Minn., affecting ditch laws provides that a petition of 25 per cent of the owners of land affected, or the owners of one-third of the land along the line of a proposed ditch, is required to start any state drainage proceedings. It also provides that final payment to the contractor is forbidden until the owners have been notified and given a chance to object. The apparent intent of the measure is to make it harder to start proceedings for a judicial ditch. Many farmers are said to regard the present law unfavorably, believing only one signature really needed to start proceedings toward having a ditch ordered.

A significant statement was made to a Minneapolis council committee, considering ways and means of spending \$500,000 for a municipal ice plant. President J. B. Perry of the Minneapolis Artificial Ice Co., said, according to the report of the session, that his company did not want to compete with the city and if it entered that field his company would want to sell out. Business men in other fields are watching.

Electrical manufacturers, central stations, jobbers, contractors, and dealers, in New York city, voted in favor of planning a great national electric week to be held in the United States and Canada sometime next fall. It was decided to recommend to the directors of the American Society for Electrical Development, to make this a big sales and educational week, during which time all affiliated interests would co-operate with national manufacturers and civic bodies, to boost for the better lighting of streets, stores, factories, schools and homes.



# Points From President Lewman's Address

Upon taking office again as president of the National Association of Builders' Exchanges, Harry L. Lewman of Louisville, Kentucky, delivered the annual president's address and in the course of it he showed the remarkable progress which this organization has been making. Greater New York city had its first delegation at the meeting (Columbus, O.), and it was a large one. Membership was doubled last year and it now means a co-operating power of more than 8,000 members of local exchanges in all part of the country. Mr. Lewman said:

"Article X. of the form prepared by the American Institute of Architects means arbitration of all questions except a few details. A minority of architects still insist that they should have full control. We have been met in such a spirit of fairness by the best of the architects that we cannot believe such a course to represent the preponderating view of the profession and wish first to see if architects will not at least be educated in a comparatively short time to practically general arbitration. There are two ways in which this attitude can be greatly assisted. The first is by showing our own good judgment by working under arbitration clauses. Some architects have expressed the fear that building operations will be impeded by unnecessary demands for arbitration, but placing the burden of expense upon the loser prevents this.

It is our part to show that this fear is unfounded, as it really is.

"We can take another step forward by appointing a committee of arbitrators in each exchange and requesting the local chapter of American Institute of Architects or the local Society of Architects to appoint a like committee. Then the exchange should ask the architects to provide in the specifications that the arbitrators shall be chosen from these committees.

"Our present efforts should be educational and we look for such success in this direction as to render unnecessary any further appeal to the legislature to prohibit discretionary clauses, such as was recently so enthusiastically voted by a large majority of their members in two states.

"I think the question of the proper relationship and conduct of business between the contractor, sub-contractor and material men should be vested in a special committee for consideration and recommendation at the next meeting. This furnishes a field for thoughtful, careful work.

"The appointment of a committee on the standardization and definition of materials for use in specifications and commercial dealing is of no less importance."

A report of the meeting by a representative of the Building Age shows that the proceedings were at all times earnest, thorough and business-like.



Wm. H. Ziegler.

## OPENS A NEW OFFICE IN MINNEAPOLIS

The Chain Belt Company of Milwaukee, Wis., has opened a new office in Minneapolis under the direction of Mr. W. H. Ziegler, at 320 Temple Court. The new Rex concrete mixer, perfected by the Chain Belt people will be sold by Mr. Ziegler who has had much experience in the contracting machinery line. He is looking for a good season in 1915.

Besides the Rex mixer the following lines, among others, are represented by Mr. Ziegler: Marion steam shovels, Acme crushers and road machinery, Wyoming shovels, and Industrial Works locomotive cranes and clam shell buckets.

## ST. PAUL BUILDERS' EXCHANGE BOWLING RECORD.

Score March 8: Contractors—782, 881, 934, won 2, lost 1, vs. Sheet Metal—817, 849, 921, won 1, lost 2; Cement, Stone, Brick—880, 819, 823, won 1, lost 2, vs. Steel and Iron—866, 821, 894, won 2, lost 1; Plumbers and Steamfitters—859, 962, 850, won 2, lost 1, vs. Bond—826, 832, 934, won 1, lost 2; Hardware—947, 809, 847, won 3, lost 0 vs. Lumbermen—778, 719, 789, won 0, lost 3.

Standing: Plumbers and Steamfitters rolled 75 bages, won 50, lost 25; Brick, Stone, Cement—75, 47, 28; Bond—75, 43, 32; Steel and Iron—75, 37, 38 Contractors—75, 35, 40; Lumbermen—75, 32, 43; Sheet Metal—75, 29, 46; Hardware—75, 27, 48. Team high score, three games, Steel and Iron—2,658; team high score, one game, Steel and Iron—966; individual high score, three games, Geo. Cook—661; individual high score, one game, J. Shiely—258.

Next game—March 15: O'Brien's—Hardware vs. Cement, Stone, Brick; Steel and Iron vs. Contractors. Pfister's—Plumbers and Steamfitters vs. Lumbermen; Sheet Metal vs. Bond.

## ARCHITECTS AND ENGINEERS.

J. W. Schaffer, formerly assistant county surveyor of Hennepin county, Minnesota, has engaged in private practice as engineer and surveyor, with offices in 418 Andrus block.

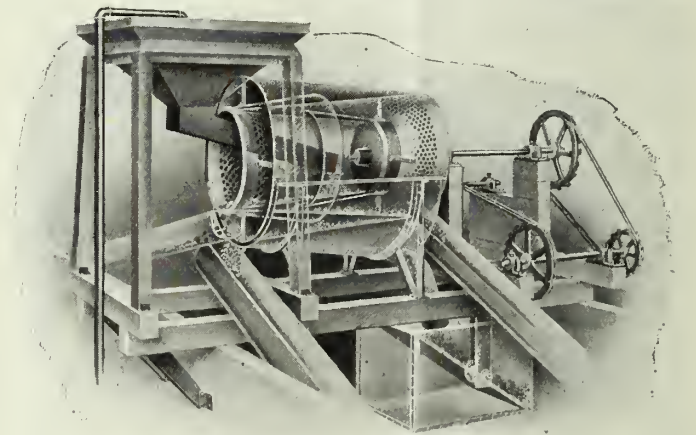
L. W. Rundlett, who was city engineer of St. Paul twenty-two years, and later at Moose Jaw, has returned to St. Paul and opened an engineering bureau at 696 Endicott building with C. G. Moore.

## WINONA MAN INVENTS WASHING SCREEN.

Chas. Biesanz of the Biesanz Stone Co., Winona had in operation a model of his new patented sand and gravel screen at the Building Material Exhibit, Chicago Show. Mr. Biesanz' original idea was to exhibit this screen only during the cement show, but the popularity of it prompted him to leave it as a permanent exhibit at the material exhibit.

The screen is a combination of three or more screens in one and is the only frusto-conical screen of this nature on the market.

Contractors and gravel dealers attending the cement convention predicted that it would mark the beginning of a new era in the screened sand and gravel business. Builders of



today are very exacting as to the quality of sand and gravel that goes into their structures, which means that the product must be washed and screened according to specifications. Large and clean output is therefore necessary to supply this demand and the Biesanz screen is designed to meet these requirements.

That the invention is a success has been demonstrated at the gravel plant of the Biesanz Stone Co., where they have had one in operation for the last year. It has surpassed all expectations in the way of output, cost of operation and cost of construction.

Mr. Biesanz will have his screen manufactured in Winona and it will be used on all the new plants the Biesanz Stone Co. contemplate erecting in the future. It will be sold on the market.

It is announced that the central office of the Libby Lumber Company will be moved from Kalispell to Minneapolis, the move to be made March 1. The company will occupy offices in the Soo-First National building in conjunction with the other Shevlin interests.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

A concrete mixer guessing contest at the Cement Show, Chicago, was won by N. G. Rasmussen, 293 34th av., Milwaukee, Wis. He received an Archer Special mixer for estimating that the number of pieces of broken stone in the batch hopper of the machine exhibited was 13,313. There were, on counting, 13,299. The prize was offered by the Archer Iron Works, McKinley Park station, Chicago.

J. J. Cooper, contractor, has moved from 426 Andrus building to 627 same building, Minneapolis. The firm was formerly McAllister & Cooper.

The critical illness of Michael Hays is reported from Janesville, Wis. He was the contractor of the Belle Fourche dam, South Dakota, and the Lockport power house, Chicago drainage canal.

Geo. Killborn of Washoe, Mont., recently recovered from a dangerous operation which saved his hand. He is a mining contractor. Jack Killborn, former sheriff of Park county, is a brother.

"The Concrete Road" is a booklet just issued by the Sandusky Portland Cement Co. It gives complete information in an interesting manner, with many excellent illustrations, about the concrete road: its initial cost, comparative cost, durability, resistance, maintenance. There is a chapter on cracks, reinforced concrete pavements, concrete roads with asphalt or bituminous surface.

Frank J. Nixon, of Duluth, was caught for a picture by a snap-shot expert of the Brick & Clay Record, at the meeting of the National Brick Manufacturers Association. The Record said: "Frank J. Nixon, of Paine & Nixon, Duluth, Minn., looked prosperous and smiled happily. If the convention ever goes to Duluth, Frank will be sure to get a third vice-presidency—especially if the ladies have the association suffrage by that time. Brother Nixon runs 'Ben' Fisher a close race, when it comes to popularity." John H. Donahue Jr., of the Belt Line Brick Co., St. Paul, also received mention among the delegates at the convention.

J. O. Shulind & Co. and the National Drainage Co. have consolidated at Alexandria, Minn., as the National Contracting Co., J. O. Shulind, president, H. A. Leroy, vice president, J. T. Flanagan, secretary and treasurer, and Tollef Jacobson, of Alexandria, as chairman of board of directors. The cash capital is \$100,000; surplus, \$25,000. The business of the company will be general building construction, as well as drainage and irrigation construction. Both companies have been strengthened financially, as well as otherwise, and look forward to a big business this season.

Thompson A. Lathrop, Minneapolis contractor, 418 1st. av. SE., recently recovered from pneumonia, started for his office and fell and broke his leg on the way.

Chain Belt Co., Milwaukee, Wis., has issued general catalog, No. 56, 300 pages illustrated. A complete treatment of elevating and conveying machinery, featuring Griplock (malleable) and Chabelco (all-steel) chain belts, sprocket wheels, transmission machinery, elevator and conveyor aperturances. As an introductory a few facts about the Chain Belt Co. and illustrations picturing important installations of elevating and conveying machinery are given. Tables and general description follow each classification in the book.

Extensive disturbance in Nebraska is indicated by the following collection of local reports: Fairbury is agitating paving question; Kearney is agitating paving; Neligh is agitating paving; Nebraska City is agitating more paving; more agitation in Plattsmouth of paving question; Papillion is agitating paving Main st. If this widespread agitation was seismic it would be an earthquake. If it was miasmatic it would be fever and ague.

Wahoo, Neb., is starting an agitation for a Carnegie library. Hartington, Neb., is the scene of "agitation for a hospital."

The Allis-Chalmers Manufacturing Co., Milwaukee, was awarded the contract for the complete equipment of a lime stone pulverizing plant in the quarries of the Carbon Limestone Co., Youngstown, O., at Hillsville, Pa., at \$40,000; capacity, 100,000 tons annually.

Minnesota Pipe & Tile Co., was incorporated recently; principal place of business, Mankato, Minn.; capital stock, \$50,000; highest amount of liabilities, \$50,000; incorporators: M. K. Cain, D. W. McLaughlin and J. A. McLaughlin, all of Mankato, Minn., J. J. Hammen of Spencer, Iowa, and I. S. Jenkins of Johnville, Iowa.

### ARCHITECTS AND ENGINEERS.

N. Y. Taylor, engineer for Meeker county, Minnesota, for the state highway commission, has completed figures showing the cost of building roads in that county with the tractor rig consisting of engine and two graders. He states that this competition includes every item of expense connected with the work, not counting surveying. Following are figures, covering last season's work: 102 working days; 36 miles of road built; wages of operators—foreman, engineer and two grader men \$1,331; 4,401 gallons Crown gasoline, \$580; 403 gallons lubricating oils, \$129; repairs to graders, sharpening, etc., \$52; repairs on tractor, \$43; accident insurance premium, \$50; depreciation on outfit, 25 per cent on cost of \$3,713; \$928; cost of shed for winter cover, \$150; total cost for 36 miles, \$3,265; cost per mile, \$90.

David Gorman, architect, has opened offices for the practice of his profession at 307 Sage st., Virginia, Minn. He desires to receive manufacturers' samples and catalogues.

Warren Dedrick and Natt Piper announce the establishment of the firm of Dedrick & Piper, architects. They will conduct a general architectural practice at their offices, 222 Stapleton block, Billings, Mont.

Prof. S. C. Shipley of the mechanical engineering department, of the university of Minnesota, recently gave an illustrated lecture on "Automobile Ignition Systems" before the student branch of the American Society of Mechanical Engineers.

R. A. Lundquist, E. E., '05, is to give two lectures to the class in electrical transmission of the college of engineering, of the university of Minnesota: March 9, Preliminary Engineering and Materials of Construction for Transmission Lines, March 11, Methods of Construction for Transmission Lines.

Dean Francis C. Shenehon of the college of engineering, of the university of Minnesota, has accepted an invitation to be present and speak at the annual dinner of the engineering society of Detroit, Mich. Mr. Shenehon is a former president of this society.

W. H. Hoyt, C. E., 1890, college of engineering, university of Minnesota, new president of the Minnesota Surveyors and Engineers' Society, is a member of the American Society of Civil Engineers, and assistant chief engineer of the Duluth, Missabe & Northern Railroad.

Stanley Macomber has resigned as city engineer of Centralia, Wash. The position will not be filled at once.

The Gargoyle club of St. Paul architects and draftsmen, received an appropriate gift of a gargoyle from W. K. Morison the hardware dealer of Minneapolis, at the meeting this week. Mr. Morison and Wm. Channing Whitney, architect, Minneapolis, attended the meeting. The gargoyle was brought from Europe by Mr. Gardner. He has a collection.

A notice of partnership dissolved, states that Fisk & Fletcher, engineers, of Helena, has been succeeded by Mr. Fletcher, who will continue mining engineering and civil engineering at 36 Bank of Montana building. Mr. Fisk will practice civil and hydraulic engineering with offices in 37 Bank of Montana building.

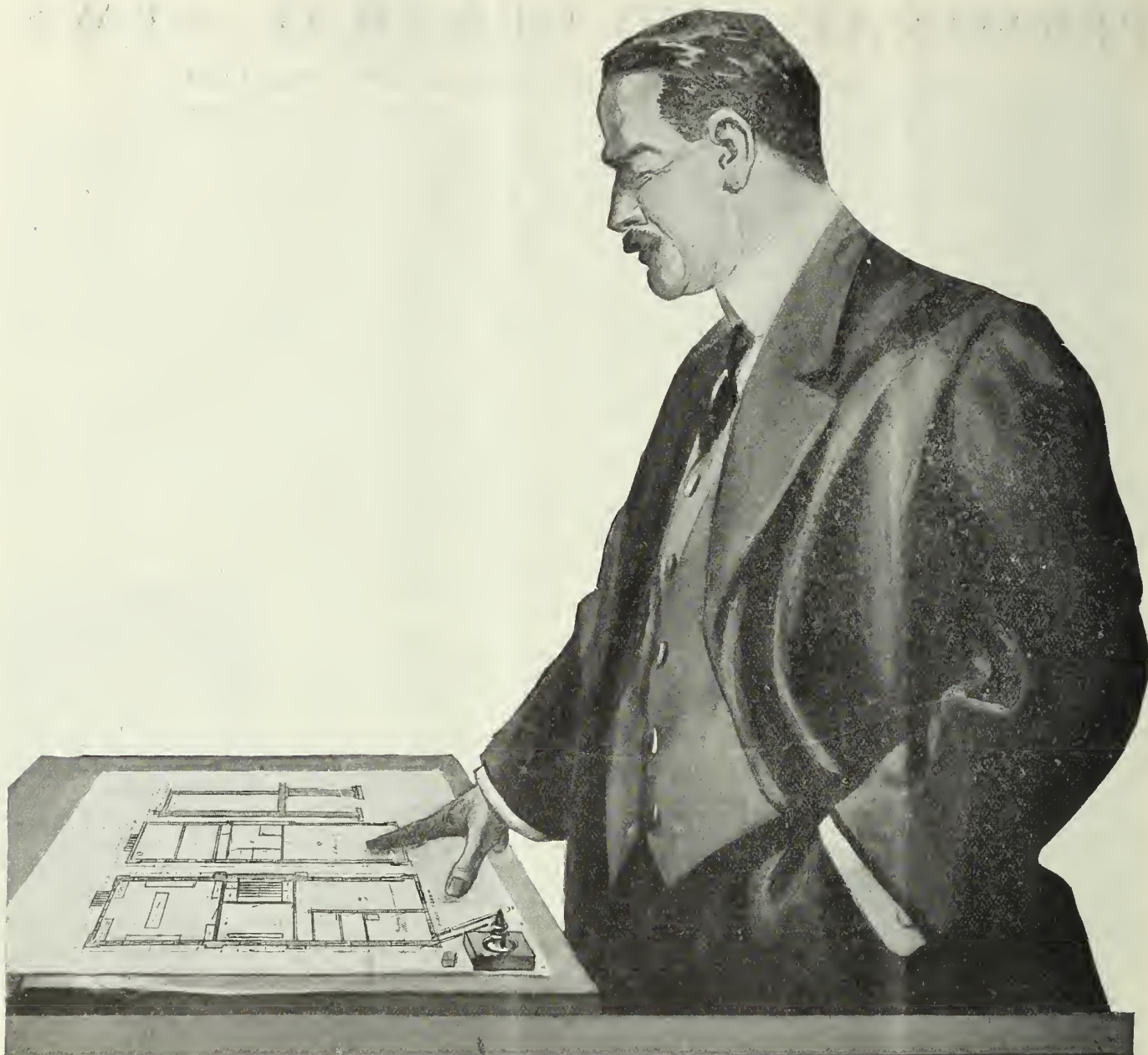
Jones & Curtis is a new firm of engineers at Fairmont, Minn. Frank O. Jones is a graduate of the engineering department of the Iowa university and has had several years of practical experience. He has been engaged in the practice of his profession in Martin county two or three years. He received a large vote for county surveyor last fall. Thomas H. Curtis is the son of County Commissioner and Mrs. Byron H. Curtis. He is a graduate of the engineering department of the state university.

W. T. Walker, construction superintendent and engineer for the Byllesby Co. at the Coon Creek dam, gave a talk at the meeting of the Minneapolis Jovian League this week, on the dam and power plant at that point. A dance will be given by the degree team April 6, at the Calhoun Commercial club.

The Civil Service commission of Minneapolis received a requisition to fill the position of assistant sewer engineer, made vacant by the death of N. J. Lund last week; the job pays \$130 per month.

Harry Franklin Baker, landscape architect, 4629 Lake Harriet blvd., Minneapolis, has published a handsome booklet of his work in and near Minneapolis. The illustrations are numerous and well chosen.





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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.

Phones: N. W. 3902, T.-S. Center 2194.

Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

Henry Thorson, 4052 S. Lyndale av., 2-story plaster veneer dwl.; address owner, 4144 Lyndale av. S.	3,500
P. H. Phillips, 4712 S. Aldrich av., 2-story frame dwl.; address owner	3,800
Charles Benson, 3836 15th av. S., 1-story plaster veneer dwl.; address owner, 3850 Bloomington av.	2,500
R. F. Sheehan, 4624 Washburn av. S., 2-story plaster veneer dwl.; address owner, 3849 Garfield av.	4,000
G. C. Breyette, 3951 Minnehaha av., 1-story frame dwl.; address owner, 3828 Minnehaha av.	1,200
Lewis Hansen, 4115 Colfax S., 1-story plaster veneer dwl.; address owner, 3828 Minnehaha av.	3,000
E. W. Swanson, 3208-10 S. Lyndale av., alterations changing double dwl. to four-flat building, brick veneer, front porches.; address owner	3,500
Mrs. Rosen, 1107 Girard av. N., repairs to frame dwl. after fire; address owner	1,200
Everett E. Addy, 4924 Pleasant av., 1½-story frame dwl.; address owner, 4800 Lyndale av. S.	3,500
Mrs. Catherine A. Brane, 3119 Wenonah place, finishing frame dwl.; address owner	1,000
John Schindler, 1919 Central av. NE., 1-story brick second story addition to meat market; address owner, 1915 Central av.	1,200
P. W. Phillips, 4720 S. Aldrich, 2-story plaster veneer dwl.; address Tozer Lumber Co.	3,200
Bursh Bros. Jno. R. and Jos. A.), 1811 1st av. S., 3-story brick apartments; 3055 Pillsbury av.	40,000
T. G. Winter, 2617 Dean bldg., concrete foundation for new 2-story plaster veneer dwl.; 654 Chamber of Commerce.	1,200
Oscar Emil Larson, 4517 31st av. S., 1½-story frame dwl.; 4517 31st av. S.	1,100
Peters Home Building Co., 5209 S. Washburn av., 1½-story frame dwl.; 654 McKnight building.	2,000
Peters Home Building Co., 4005 11th av. S., 1½-story frame dwl.; 654 McKnight building.	2,400
Leonard I. Lobdell, 3947 17th av. S.; 3153 14th av. S.	2,000
Charles Rydberg, 4437 45th av. S., 1½-story frame dwl.; address owner, 3008 41st av. S.	1,100
Jacob Friedson, 1131 N. Humboldt, 2-story plaster veneer duplex	4,000
Jno. and Samuel Friedman, 1786-88 Hennepin av., 3-story brick apartments; 1914 James av. S.	50,000
Joe Galka, 1913 5th st. NE., ½-story frame addition over dwl., 2-story frame addition to dwl., stone foundation under store, alterations, change store into dwl.; address owner	1,500
Chas. Lindblom, 2123 N. 4th st., 1½-story frame dwl.; address owner, 1217 28th av. NE.	3,000
J. H. Jennings, 2513 Elliott av., alterations, change dwl. into duplex, front porch; address owner	1,000
Hennepin Brewing Co., 1811 3d st. NE., brick, steel and tile addition to government cellar; address owner	4,500
Mrs. Bertha Wasserman, 1102 Knox av. N., 2-story plaster veneer duplex; address owner	7,000
S. H. Holstad & Co., 601-03 N. 4th st., 4-story brick wholesale store building; address owner, 232 N. 7th.	20,000
Hallberg, 2300-05 W. 50th st., 2-story brick and concrete block; address owner	5,500
M. M. Ostlund, 2326 N. Fremont, 2-story frame dwl.; address builder, 3430 Elliot av.	2,500
F. W. Gillies, 5024 S. Colfax av., 2-story plaster veneer dwl.; address builder, 4054 Blaisdell av.	4,600
Edwin Benson, 3114 Johnson st. NE., 2-story frame dwl.; address owner, 817 18½ av. NE.	2,000
John Dubay, 4449 43d av. S., 1-story frame dwl.; address owner	2,000
A. W. Smith, 3916 S. Vincent av., 1½-story plaster veneer dwl.; John F. Ryan Bldg. Co.; address owner, 3920 Vincent av. S.	3,000
J. A. Kipp, 1095 18th av. SE., 1-story frame dwl.; address owner	1,800
Oscar Carlson, 3137 32d av. S., 1½-story frame dwl.; address owner, 3134 17th av. S.	2,200
G. H. Horton, 4044 Bryant S., 1½-story plaster veneer dwl.	

Work will begin early in the spring on two large parochial schools for church at St. Anthony of Padua, NE. Minneapolis, and St. Stephen's church, Clinton and 22d st. S.; former will be a 10-room structure, a parish hall, gymnasium and all modern improvements, brick, stone, fireproof, foundation in; general contract awarded to Hennessey Co., Oppenheim building, St. Paul, total cost about \$90,000; St. Stephen's school will be an 8-room building, with parish hall and gymnasium, all modern, brick, stone, fireproof, cost about \$60,000; general contract to Madsen Brothers, Plymouth building, Minneapolis; plans for both buildings were prepared by E. J. Donohue, architect, Gillfillan block, St. Paul.

John B. Koester, architect, Iron Exchange, 4th st. and 4th av. S., has the plans out for figures which will be taken until

next week, for the office building, at 10th st. and Nicollet, to be built by Wm. and Isadore Weisman; (Wm. Weisman, furrier, Andrus block); 4-story, foundation for 12, steel construction, brick, terra cotta and cut stone trim, steam heat, elevator, tile terrazzo and concrete floors, plate glass front, patent store fronts, ornamental plaster, composition roof, sprinkler system, fire escapes, skylights and ventilators, sidewalk lights and coal chutes; figures will be taken both for hotel and office building.

Berger Manufacturing Co., 300 10th av. S., was awarded the big contract to furnish the vacuum cleaner systems for the new Athletic Club building, 2d av. S. between 6th and 7th sts.; James Leck, contractor; Bertrand & Chamberlain, architects; this is one of the largest contracts of the kind that has been placed in the city; 13 floors; 4 risers for full 13 floors; 40 openings, Tuec system; Berger Co. also installed the extensive vacuum cleaner system in the Calhoun Commercial club.

\*Haley & Johnson, architect, have plans ready for the modern residence of N. H. Emmons, 1736 James S., to be built at Douglas and Kaos; 2-story and basement, brick veneer, concrete foundation, hot water heat, three tile baths, two show-ers, brick mantle, oak floors, sideboards, French doors, sleeping porches, sun-porch, beamed ceiling, vacuum cleaner, incinerator, laundry, billiard room, coal chute may be asbestos shingle roof; architect and owner taking figures.

\*Jackson & Stone, architects, Security building, have completed plans and figures are being taken until Monday, March 15, by the architects, on the large modern residence, for M. G. Magnuson, 2-story, modern, concrete, brick facing, clap boards, three baths, three brick fireplaces, laundry, sleeping porches, brick terraces, shingle roof, garage, cement walks and walls, alternate of asbestos shingles, French doors and window bookcases.

\*O. K. Westphal, architect, Northwestern block will have plans out Saturday March 13, for figures, on a large apartment building, 12th st., between Yale and Harmon place, for Burt Hantz, care Unique restaurant, 612 Hennepin av.; 94 apartments; 3-story, brick, modern, steam heat; 87 6x49; refrigerators, gas stoves, laundry tubs, driers, incinerator, tile floors, wall beds; concrete foundation; marquis; owner will take figures.

\*Glenn L. Saxton, architect, Plymouth building has furnished plans for modern dwelling, Frank Fairchild, 3644 Portland, brick veneer, 26x28, oak and fir trim, to be built in St. Louis Park, W. D. Butterfield, 3212 Colfax S., plaster veneer, 28x26, modern, \$3,800; Mrs. M. A. Thompson, 604 11th av. N., plaster veneer, oak trim, 26x28, \$3,800; G. W. Gold Redwood Falls, Minn., frame, oak and birch trim, 24x32, \$3,800.

\*Kirby T. Snyder, architect, Plymouth building is preparing plans for several schools; Petersburg, Minn., 4 room, brick, modern, plans out in three week; Williams, Minn.; plans about finished for Lamberton, Minn., school, out for bids next week; Columbia Heights, 4-room and basement probably all on one floor, with second story to be added later, \$17,000.

Bids received by the library board at the office of Chapman & Magney, architect, 509 Essex building, until 12m., March 22, for the construction of the branch library at 6th and Emerson, include: general, plumbing, heating, electrical, painting and varnishing; plans at office of architects; check 5 per cent, on general; check 10 per cent on other contracts.

\*Chapman & Magney, architect, Essex building, are making preliminary plans for Grace Evangelical Lutheran church, Harvard and Delaware SE.; Rev. C. A. Wendell, pastor; brick, concrete foundation, finished basement, with kitchen, steam heat, seats for 400, plumbing, heating, wiring, pipe organ, \$25,000; spring work.

Contracts let on dairy barn, for the county at Glen Lake: general, Davis Construction Co., 706 Plymouth, building; Milton Plumbing Co., 4309 Upton; electrical, Vernon Bell, 228 S. 4th; painting, E. G. Chrelman, 3042 Hennepin; Bertrand & Chamberlain, architects, Northwestern Bank building.

Contract let for school at Cleveland, near Deephaven, Minnetonka, to Carlsted Bros., 234 20th av. N., Minneapolis; heating, ventilating and plumbing to Kadourek & Bros. Hopkins; plans by Long, Lamoreaux & Long, architect, 820 Hennepin; electrical not let.

(Continued on page 15.)



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

### ENGINEERS

**L. P. WOLFF**, Consulting Engineer,  
M. Am. Soc. C. E.  
1000-1003 Germania Life Bldg., St. Paul.  
Water Works Sewerage, Bridges, Water  
Power Development.

**M. B. STONE**  
**BRIDGE AND STRUCTURAL ENGINEER**  
Plans and Estimates  
Bridges and Buildings  
Steel and Concrete :-  
Nicollet 421 Andrus Building  
4719 Minneapolis, Minn.

**COWLES-VANDANAKER CO.**  
Buildings, Bridges and Reports  
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Flour Exchange Chamber of Commerce  
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Main 735 Cedar 3488

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Creameries, Breweries, Packing and Ice  
Cream Plants. Contracting Engineer for  
Cold Storage Plants.  
**CHAS. A. BERGER**,  
Refrigerating Engineer and Architect,  
Sykes Block, Minneapolis.

## ROY E. CURTIS

*Architectural Sculpture.*

*Plain and Ornamental*  
**PLASTERING**

1123 W. MICHIGAN ST. DULUTH, MINN.

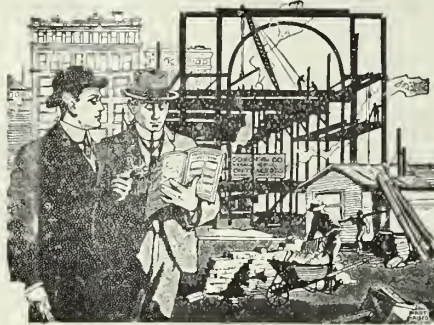
## CAST IRON PIPE AND FITTINGS

**STOCK IN MINNEAPOLIS All Sizes**  
**AMERICAN CAST IRON PIPE CO.**  
Minneapolis, -:- -:- Minn.

### LABORERS

#### WE FURNISH LABORERS

all classes and nationalities, any number,  
also mechanics, tradesmen, etc. No charge  
for service and give you the best kind of  
men. Your patronage solicited. Phone, write  
or wire **DIAMOND LABOR SUPPLY CO.**, 32  
S. Canal St., Chicago; Bell Phone Franklin  
4529. We are also boarding camp contract-  
ors—complete outfits furnished.



**OFFICIAL ADVERTISEMENTS** for pro-  
posals will be published in this department  
on receipt of copy with order from author-  
ized official, building committee, architect or  
engineer.

**RATE:** 15c per line each insertion. No  
discounts allowed. Several insertions are  
customary to insure full and fair competi-  
tion.

**PUBLICATION DAY:** Last forms close  
10 a. m. Friday. Copy received up till that  
hour will be published in The Bulletin and  
delivered to subscribers the next day. Copy  
received later cannot be published till issue  
of the following week.

**MINIMUM CHARGE:** No advertisement  
published for less than \$2.00 each insertion.

The Daily Reports of The Improvement  
Bulletin, published every business day, can  
be used to advantage when copy cannot  
reach us in time for publication in the week-  
ly Bulletin before bids are to be opened or  
when daily publications are necessary to  
meet legal requirements. Rate is the same,  
—15c per line each insertion.

## Proposal Index

Bids Close		See Imp. Bulletin Dated
Mar. 17.	Road Contracts, Glenwood, Minn. ....	Mar. 13
Mar. 18.	Hospital, York, Neb. ....	Feb. 27
Mar. 18.	Bridge Approaches, New Ulm ....	Mar. 13
Mar. 19.	School, Maxbass, N. D. ....	Feb. 13
Mar. 19.	Road Material, Ivanhoe, Minn. ....	Mar. 13
Mar. 19.	Ditch, Blue Earth, Minn. ....	Mar. 13
Mar. 20.	Library, Graceville, Minn. ....	Mar. 6
Mar. 22.	Ventilating and Pl., St. Cloud, Minn. ....	Feb. 27
Mar. 22.	Office Building, Austin, Minn. ....	Mar. 13
Mar. 23.	Roofing, Steel, etc., St. Cloud, Minn. ....	Mar. 13
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Mar. 30.	Ind. School, Pierre, S. D. ....	Mar. 6
April 5.	City Hall, Ames, Iowa. ....	Mar. 13
April 7.	Bridges, Sibley, Iowa. ....	Mar. 13
April 7.	Bridges, New Hampton, Iowa ....	Mar. 6
April 13.	School, Willow City, N. D. ....	Mar. 13

## PROFESSIONAL DIRECTORY

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**OSCAR CLAUSSEN ENGINEERING COMPANY**

Consulting Engineers.  
Engineering Experts to Municipalities  
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**CHARLES L. PILLSBURY**,  
CONSULTING ENGINEER.  
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**POWER ENGINEERING CO.**

Offices, Corn Exchange Bldg., Minneapolis,  
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**CONSULTING ENGINEERS**  
Water Power Examination, Surveys and  
Reports.  
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**LEWIS A. LARSEN**

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Specialist in Power Plants, Waterworks and  
Heating and Ventilating  
Office: 643 Endicott Bldg., St. Paul, Minn.



**J. C. Kernchen AREX**

*Inventor*

Original Siphonage Ventilator  
Storm-proof—Economical—No  
Movable parts.

"The Power Fan's Only Rival"

Manufactured Exclusively by  
**AREX CO., Chicago**

WM. H. HALE & CO.  
McKnight Bldg., Minneapolis, Minn.

Asphalt Road Oil Cement  
Paving Brick Tar Wood Block

**WALTER H. FLOOD**

Chemical Engineer

Tests - Inspections - Specifications - Reports  
326 River Street Chicago, Ill.

## BLUE PRINTING

Speed and Quality  
TRY THE

**Minneapolis Blue Printing Co.**

Most Modern in the Northwest

422 Hennepin Ave., Minneapolis

Complete line of Keuffel & Esser  
Instruments. Write for Catalogue

**BECK ELECTRICAL CONSTRUCTION COMPANY**  
HIGH GRADE POWER AND ELECTRIC LIGHT INSTALLATION 1139 Plymouth Bldg. Minneapolis

**Contractors' Bonds and Workmen's Compensation Insurance**

211-222 Commerce Building  
ST. PAUL

**WM. B. JOYCE & CO.**

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MINNEAPOLIS

NORTHWESTERN MANAGERS

**NATIONAL SURETY COMPANY OF NEW YORK.**

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Please Mention The Bulletin When Writing Advertisers.



The

# Underwood



**F i r s t** in public opinion. Proved through its adoption by the largest typewriter users.

**H i g h e s t** mechanically, as evidenced by the work of the Elliott Cresson medal.

**B e s t** because it is the machine upon which all international typewriter records have been won.

**G r e a t e s t** because it has the largest typewriter factory and office building in the world.

## UNDERWOOD

*"The Machine You Will Eventually Buy"*

230 South Fourth Street

Minneapolis, Minn.



## "STEHLING"—The Quality Mixer

Used successfully on large and small jobs

Its quality and quantity of mix puts it to the front of all mixers on both large and small jobs. The drum of the Stehling Mixer has a capacity of  $5\frac{1}{2}$  cubic feet dry material; daily output 60 cubic yards. Its  $5\frac{1}{2}$  cubic foot hopper is loaded while the drum mixes the previous batch, thereby assuring a continuous feed and discharge. No time is lost. Mixers carried in stock for prompt shipments.

Write for further information and prices

Chas. H. Stehling Co., 401 4th Street Milwaukee, Wis.

Agents Wanted -- Good live Workers in unoccupied territory. Proposition sent on request.



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT

ASSETS \$3,514,125.50

Both Phones 622

The Hood & Matschke Co.

GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.

ASSETS \$4,823,371.79

MINNEAPOLIS, MINNESOTA

### Brick of Quality.

#### Dickinson Brick

ALL KINDS

Call for Samples and Prices

DICKINSON Fire and Pressed BRICK CO.

Dickinson, N. D.

#### RUFUS P. MORTON

Manufacturer of

CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
Correspondence Solicited.

#### OPERA HOUSE. Luverne, Minn.

Sealed proposals will be received by Herman Jochims, at Luverne, Minn., until 2 p. m., March 23, 1915, for the general construction, heating and plumbing of an Opera House and Business building, as by plans and specifications by W. E. E. Greene, Architect, Luverne, Minn.

Plans will be on file March 8, at the Builders' Exchange St. Paul and at the office of the architect. A certified check for five hundred (\$500.00) shall accompany each bid for general construction, and one hundred (\$100.00) for each bid for plumbing or heating.

All bids shall be in strict accordance with condition of plans and specifications, and a deposit of \$10.00 will be required for the exclusive use of plans for a period of five days, and as a guaranty of their being returned.

All prospective bidders are requested to visit the building site and take note of the building to be wrecked, with the materials and walls to be used in reconstruction, together with the condition of hous-

ing of a tenant during the period of construction.

Until the date of letting, address the owner at Schleswig, Iowa.

HERMAN JOCHIMS.

#### BRIDGE APPROACHES AT NEW ULM, MINNESOTA.

Sealed bids will be received at the City Clerk's office, at New Ulm, Minnesota, up to 5 o'clock, P. M., March 18, 1915, for the furnishing of tools, labor, erecting equipment and all necessary materials to fully erect and construct combination steel and concrete approaches to the Beussmann and Courtland highway bridges spanning the Minnesota river at New Ulm, all according to the plans and specifications as prepared for same by the city engineer; and on file at the City Clerk's office.

Copies of the plans and specifications may be had upon application to the City Engineer.

All bids are to be sealed and marked, "Proposals for Bridge Approaches" and accompanied by a certified check in the sum of 10 per cent of such bid, payable to the City Clerk, to be forfeited to said City in case the successful bidder fails to enter into contract and furnish satisfactory bond within ten days after the acceptance of his bid.

The City Council reserves the right to reject any or all bids.

Dated New Ulm, Minn., March 2, 1915.

(Seal.) WM. BACKER, City Clerk.

F. D. MINIUM, City Engineer.

#### SCHOOL ADDITION, HEATING, VENTILATING AND PLUMBING.

St. Cloud, Minnesota.

Sealed proposals will be received at the offices of the Board of Education of St. Cloud, Minnesota, until the hour of 4 P. M., Monday, March 22, 1915, for the erection of a four-room brick addition to the Lincoln School at East St. Cloud, Minnesota—the heating, ventilating and the plumbing of the entire building.

Bids must be in accordance with the plans and specifications as prepared by R. C. Buckley, Architect, St. Cloud, Minnesota. Copies of the same may be obtained from the Architect, upon a deposit of fifteen (\$15.00) dollars, of which

seven dollars and a half (\$7.50) will be refunded upon the return of the plans and specifications, the balance being retained to cover the cost of reproduction.

Plans are on file at the Builders' Exchanges of both Minneapolis and St. Paul, Minnesota, and at the Architect's office.

Bids will be taken (in addition to the heating system as specified) on any reliable Vapor Vacuum Steam Heating system, the same being from plans and specifications as furnished by the respective manufacturers, which have received the approval of the Commissioner of Public Schools. It will be necessary that two sets of plans and specifications be filed with the Commissioner of Public Schools. No bids will be considered unless this approval is made.

Bids must be accompanied by a certified check in the sum of five (5%) per cent of the amount of the bids, made payable to the treasurer, Mr. C. S. Bunnell, the same to be forfeited to the School District if the successful bidder fails to enter into contract and furnish a satisfactory Surety Company Bond, within seven (7) days after having been notified of the acceptance of his bid.

The Board reserves the right to reject any or all bids.

BY ORDER OF THE BOARD OF EDUCATION.

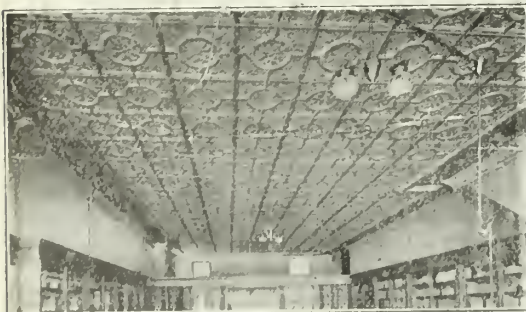
W. W. Smith, President,  
Julius Adams, Secretary.

(Continued on page 16.)

### EDINGER

"JUST NOW"  
Let  
"EDINGER"  
Cedar Rapids, Iowa  
figure on that job of  
**CUT STONE**  
Plans sent for Estimate  
Returned promptly.

### EDINGER



SEND US YOUR PLANS  
Our figures cost nothing, and  
YOU WILL SAVE MONEY

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

**ST. PAUL ROOFING, CORNICE  
and Ornament Co.**  
ST. PAUL, MINN.



Minneapolis—(Continued from page 11.)

Contracts let on apartment building, 1809 2d av. S., for H. H. Placke, 902 Andrus; carpenter work, to L. Fleischer, 105 Aldrich; roof, to F. B. Haverland Roofing Co., 420 Washington av.; bids wanted on electrical work and painting.

Bids received till 12 m., Mar. 19, for furnishing the finishing hardware for the branch library at 22d av. and Central NE., at office of Chapman & Magney, architects, Essex building, 10th and Nicollet; check 10 per cent; surety bond.

A plant for manufacturing gas engines will be established temporarily at Pierce and Winter sts., by H. E. Woolery, formerly of Fairmont, Minn.; Gas Engine Co., option on site of 5 acres secured for permanent factory.

City will receive bids at 217 City Hall, until 3 p. m., March 16, for furnishing steel beams, for 3d av. bridge: 200 pieces 24-inch, 28 feet; 80 pieces, 24-inch, 26 feet; check for \$200; K. E. Alexander, purchasing agent.

Bids are being taken by the owner, J. S. Pomeroy, Security Bank building, on modern residence improvements, 127 Clinton av., stained roof, plans by Jackson & Stone, architects, Security Bank building.

Jackson & Stone, architects, 643 Security Bank building, are preparing plans for a modern residence, Lake of-the Isles, for Dr. T. H. Thomas, 328 Central av., brick veneer, shingle roof, 2-story, 39x40.

Orphan asylums will be built in Minneapolis and Duluth by the Minnesota Conference, Swedish Lutheran Augustana church; \$15,000 subscribed, headquarters St. Paul's church, 227 Bloomington av.

Minneapolis Brewing Co. and J. C. Slafter, real estate, 510 Masonic Temple, are owners of the hotel and cafe property burned at 319-323 Hennepin; conferences are being held on rebuilding.

Plans for the 3-story brick and stone bible college, 15th and University, SE., for Scandinavian Christian Union, has been approved by building department; foundation in; cost \$75,000.

Plymouth Gypsum Co., of Ft. Dodge, Iowa, furnished the hard wall on Art Museum, through the Superior Lime & Cement Co.; Johnson & McCoy, plastering contractors.

Frank P. Hough has the contract for a plaster veneer dwel-

ling at 4624 Washburn av. S., 26x34, hot water heat, tile bath, sleeping porch, \$4,000, for R. F. Sheenan.

S. H. Holsted & Co., 601-3 4th st. N., will build a 4-story brick wholesale store building, at that location; mill construction.

Contract awarded on addition to the Inter-Lachen club to F. N. Hegg, 2946 Nicollet av.

Fire damaged the Twin City Fuel & Transfer, city branch, 2837 19th av. S.; loss \$5,000.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday

### Building Permits.

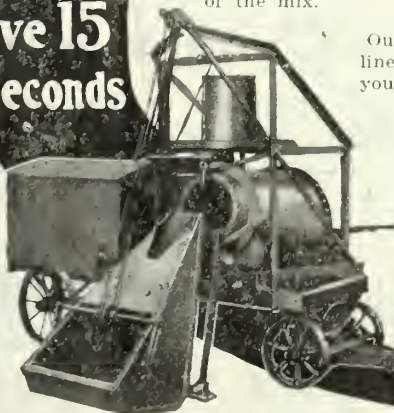
Baltuff Building Co., 310 St. Paul Arcade, builder, 1½-story frame dwl., Wellesley near Macalester.....	2,600
Baltuff Building Co., builders, 1-story frame dwl., Woodbridge near South .....	1,550
Chas. W. Biggings, 1546 Selby, 1-story frame addition, stucco dwl., Ames near White Bear; Jos. M. Baltuff Building Co., builder .....	3,100
Elizabeth Milton, 1785 Portland, 2½-story brick and stucco flats, Portland near Wheeler; Bungalow Construction Co., builder .....	6,000
Christian Hanson Realty Co., 3-story brick and concrete commission house, 519 to 533 Jackson; Paul Steenberg Construction Co., builders.....	60,000
Gust Larson, 1177 Edgerton, 1-story frame dwl., Jessamine near Earl; Carl Johnson, builder.....	1,100
R. E. Cobb Co., alterations and repairs to 4-story stone store, 3d near Wabasha; General Construction Co., builders .....	1,300
T. D. McNulty, 1-story frame dwl., Grand near Moore....	1,000
R. T. Rockey, 251 W. 6th, 2-story brick store and apartment house, Summit near 9th; Twin City Bldg. Co., bldr.	22,000
Alma K. Parodice, builder, 111 S. Lexington, 2-story frame and stucco dwl., Lexington near Fairmont.....	5,500
M. M. Rosenstein, builder, 1017 Pioneer bldg., 2-story frame dwl., Fairmont near Lexington.....	2,500
D. W. C. Ruff, 598, Lincoln, 1½-story frame dwl., Sherburne near Griggs .....	3,000
Tubbers & Nelson, 2-story brick store, Jackson near 10th .....	16,000

J. W. Butler & Bro. Co., general contractors, Scandinavian American Bank building, was awarded the general contract for constructing the large addition to the Emporium department store, extending the building to corner of 7th and



Every Minute  
This Hand  
Moves You  
Save 15  
Seconds

Added  
Earning  
Power  
\$4.00  
to  
\$8.00



# Clip 15 Seconds Off Every Mix

The actual mixing process in a mixer has been perfected to the point where no other improvements can be made—that is, no radical improvements of any kind. The process of mixing cannot be reduced in the matter of time expended—you've got to have a thorough "mix." The only places where time can be gained are in the charging and discharging.

The Northwestern Mixer has a large opening into which the materials can be easily dumped—there are no paddles at the feed end of the drum. This is done away with by reason of the tilted form of the Northwestern drum. Gravity does it.

By reason of the elongated and tapered cone-shaped cylinder the materials are turned fully 50% more times per minute than with either of these features used singly. This insures thoroughness of mix.

The Northwestern Discharge, with the big scoop in the inside of the drum, and revolving with the drum, picks up and dumps the contents of the mixer in three revolutions, or in from 8 to 10 seconds. This dumping, fast as it is, is controlled by a door and lever which is positive in action and within easy reach of the operator. The wettest grouting mixture will not stop.

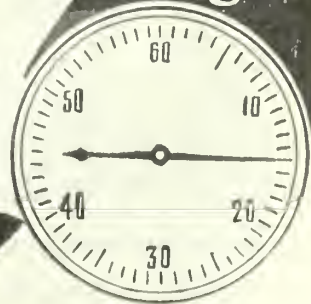
There is where the Northwestern Mixer saves you time—at both ends of the mix.

Our big FREE BOOK, which tells all about our entire line of concrete machinery of all kinds, will be sent you for your name and address on a postal.

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About It  
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Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

## JOBS

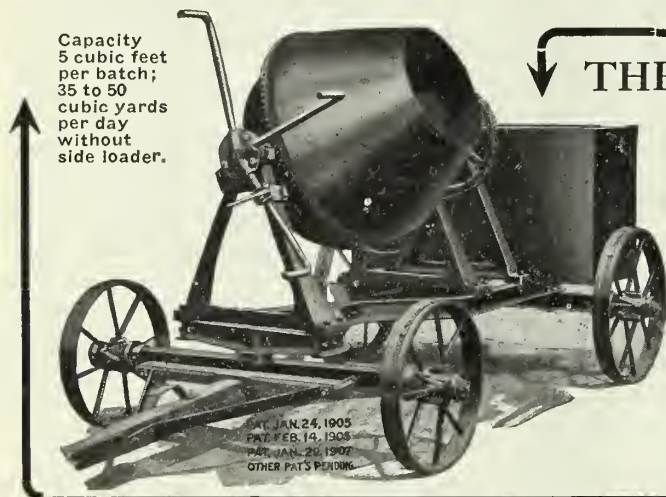
### ROLLER WANTED.

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTJ-E, Sioux City, Iowa.

Wanted:—Carpenter foreman or superintendent with experience in church construction; address R. J. Stark, 1103 1st Ave. W., Cedar Rapids, Iowa.

### POSITION WANTED.

Wanted: A position as superintendent or carpenter foreman on structural steel or reinforced concrete building. Can handle any part of the work or all if so desired. Have had nine years' experience and can furnish the best of references; care Box No. 2, Improvement Bulletin.



## THE Little Wonder "Five"

"The Mixer that Makes the Money"

Deserves your first consideration because it has proved its superiority with more of your brother contractors right in your own state, than any other. Ask us who and we'll put you in touch with them—then ask them why and they'll tell you it beats any mixer they ever used or heard about for quick, easy work and large dividends on investment.

Ten Days Free Trial and Satisfaction  
or We Pay the Freight

Waterloo Cement Machinery Corporation

220 Vinton Street, Waterloo, Iowa.

Hale Concrete Machinery Company

N. W. Agents, 1043 McKnight Building, Minneapolis, Minn.

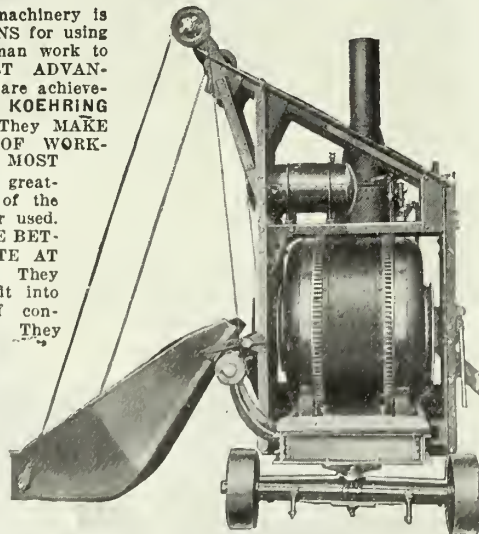
## Measure Value by Result

Any kind of machinery is simply a MEANS for using power and human work to the GREATEST ADVANTAGE. These are achievements of the KOEHRING MIXERS. They MAKE THE WORK OF WORKMEN COUNT MOST

—they get the greatest value out of the time and power used. They PRODUCE BETTER CONCRETE AT LESS COST. They put more profit into every yard of concrete mixed. They take the guess-work away from contracts. They make each dollar invested in them COST LESS TO MAINTAIN, and therefore make each dollar EARN THE HIGHEST RATE OF INTEREST.

To do a thing well is desirable; to do it better is more desirable—and to do it BEST is MOST DESIRABLE. MIXING THE BEST, and STANDING UP UNDER THE WORK are two specialties of the Koehring.

And just because it is the Mixer that has KEPT PACE WITH THE GREATEST MECHANICAL PROGRESS, the Koehring is the kind that is sought and bought. It does its talking when it is in USE—and what is a safer standard for judging anything than USE?



## Koehring Machine Co.

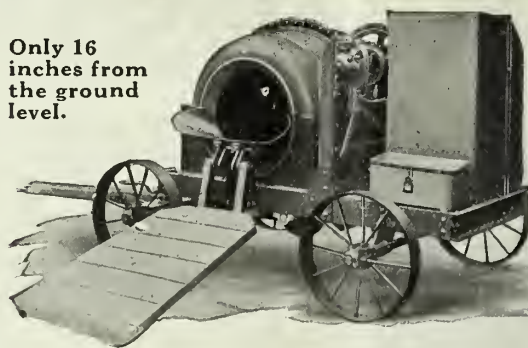
Milwaukee,

Wisconsin

H. B. JONES, District Manager  
350 Security Bank Building :: :: Minneapolis, Minn.

## The "Wisconsin"

Only 16  
inches from  
the ground  
level.



## Low Charging Mixer

Has highest efficiency. Is lowest in price. Most compact and handy. Made for long service. Built on honor to the last bolt. Write for booklet, showing our complete line of mixers,

## Milwaukee Concrete Mixer Co.

MILWAUKEE, WIS.

FRANK J. ROSE, Agent

208 Corn Exchange Bldg.,

Minneapolis, Minn.



Robert; 5-story, steel, reinforced concrete, terra cotta, 75x110, all modern improvements, will start work about April 1, contract includes wrecking of old building; Buechner & Orth, architects, Shubert building.

Plans are being prepared by W. D. McLeith, architect, Summit and Wabasha, for a bungalow for Chas. Wallin, Gaylord, Minn.; 28x36, 2-story and basement, concrete foundation, frame structure, stucco and stained shingles; 9 rooms, full plumbing, hot water heat, laundry in basement, birch and oak trim, sleeping porch, library, etc.; patent plaster (Keene), in kitchen and bath, electric wiring throughout; plans out about March 20; cost \$5,000.

W. D. McLeith, architect, Summit and Wabasha, has plans under way for bank store and flats for Sperry Realty Co., Dale and Selby av., structure to be remodeled from present old car barns, 3-story and basement, apartments, modern, steam heat, oak and birch trim, electric light, patent wall plaster (Keene), in all baths and kitchens; Koehler's fixtures, full plumbing, etc.; cost about \$35,000; plans out about April 1.

W. D. McLeith, architect, Summit and Wabasha, has furnished plans for bungalow, 26x38, for Aug. Miller; 5 rooms and bath, full basement and laundry, full plumbing, Koshler fixtures; hot water heat, oak and birch trim, patent hard plaster in bath and kitchen, approximate cost \$2,650; contract to L. A. Papke Building Co.; plans ready for figures, taken by general contractor.

W. D. McLeith, architect, has furnished plans for a garage for Harry W. Keep, on Dale near Selby (Sperry Realty Co.), C. H. Froberg, general contractor; bids wanted on electric wiring, plumbing and galvanized iron work, two toilet rooms, three auto-pits, club room, machine room, office, etc., complete, patent composition floor in office, steam heat and wash rack; cost about \$12,000.

Ralph Mather, architect, Pioneer building has let contracts on residence, 2-story and basement, 24x34, \$4,000, Macalester Park, for J. E. Gates, 233 Macalester Park; general, Nels Johnson, 1120 Payne av.; frame, hot water heating and plumbing, let to J. P. Adamson, 1920 University av.; electric work to R. H. Eddy, 579 Holly av.

W. D. McLeith, architect, is preparing plans for a garage for

H. L. Schaefer, 653 Aurora av., through Sperry Realty Co.; to be erected on upper Grand av.; cost \$25,000; modern, with baths, toilets, club-room, office, sales-room, wash rack, locker room, steam heat, etc.; size 50x150; plans out late this month.

Two hotels are planned for St. Peter st., at 9th and St. Peter and between Exchange and 10th on St. Peter; former to cost \$150,000; latter \$225,000, stores on first floors, 10-story fireproof, modern, M. P. Ryan, capitalist, 813 New York Life building; plans by Mark Fitzpatrick, architect, 19 W. 9th.

Wm. Baumeister, general contractor, 307 Hackney building, has the contract for the commission building, beting built by Tubbesing & Nelson, Jackson between 10th and 11th; 2-story, brick, \$16,000; plans by Aldin & Harris, architects, Commerce building.

Elizabeth Milton, 1785 Portland, is building a modern residence, on Portland between Wheeler and Aldine, 2½-story, brick, stucco, 29x46, hot water heat, mantel, laundry, tile bath, \$6,000; Bungalow Construction Co., contractors.

A. L. Garlough, architect, Rosen building, has prepared plans for a 4-flat, frame, hot water, 1-boiler, modern, 38x56, 2-story, porches, at State and Winnifred, for Wm. Breitman, shingle roof, owner, taking figures.

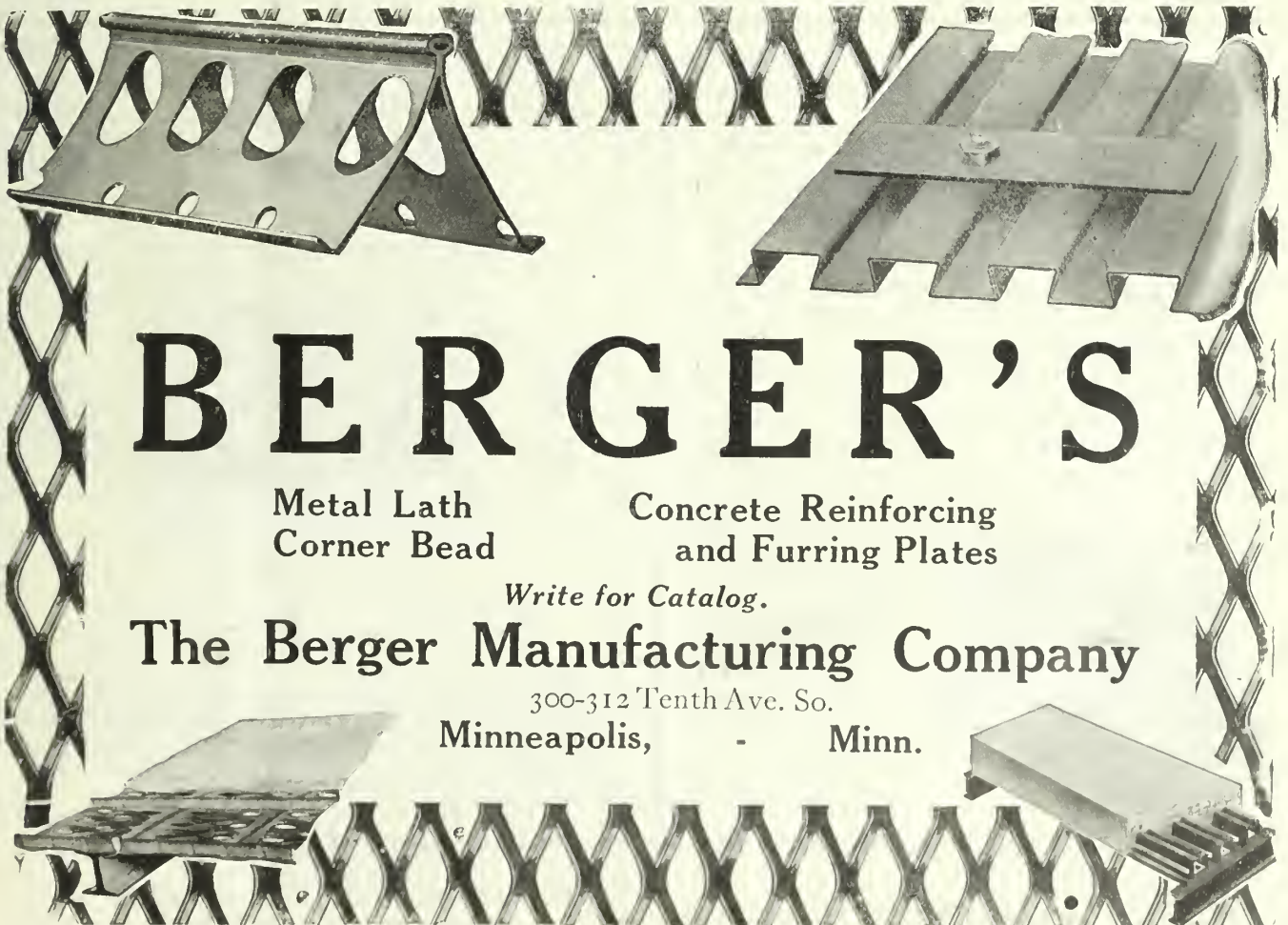
Bids for furnishing sandstone paving blocks were received by the city from Waupaca, Wis., Sand Gravel Co., at \$1.65; Kettle River Co., Minneapolis, \$1.75½ a yard; contract not yet awarded.

Plans for a city playground and athletic field near Central high, cost \$100,000, have been prepared by Fred Nussbaumer, superintendent of parks, submitted to Commissioner Nash, City Hall.

A report from Bismarck, N. D., states that the N. D. senate passed a bill providing \$38,500 in 1915, and same amount in 1916, for terminal elevator in St. Paul, for the state of North Dakota.

Permits issued for the brick and concrete commission houses to be built by Christian Hanson Realty Co., between 10th and 11th; cost \$60,000; plans by W. D. McLeith, architect.

(Continued on page 23.)



**BERGER'S**

Metal Lath      Concrete Reinforcing  
Corner Bead      and Furring Plates

*Write for Catalog.*

**The Berger Manufacturing Company**  
300-312 Tenth Ave. So.  
Minneapolis, - Minn.



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE

**HAAKINSON & BEATY CO., SIOUX CITY, IOWA**

ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS

### NOTICE TO DRAINAGE CONTRACTORS.

Sale of Ditch Job, Blue Earth, Minn.

On the 19th day of March, 1915, at 11 o'clock A. M. at the office of the County Auditor in the City of Blue Earth, Minnesota, the undersigned will sell the job of constructing County Ditch Number 27 of Faribault County, Minnesota.

The approximate amount of work, and material to be furnished in the construction of said ditch is as follows, to-wit:

No. of feet	Size of tile.	Ave. depth
700	20"	6.72
4900	18"	8.37
3700	16"	10.05
1200	12"	6.25
1965	10"	6.23
4400	8"	7.58
800	7"	4.79
400	6"	6.48

Tile or closed work, requiring digging and constructing trenches and refilling

same, one reinforced concrete bulkhead as per Engineer's specifications. Engineer specifies Number 1 hard burned clay tile, soil, black loam or clay subsoil. Average haul about 5 miles from Blue Earth on the Chicago and North Western Railroad and the Chicago North Western and Omaha Railroad, also an average haul of about 5 miles from Marna on the Chicago and North Western Railroad.

All bids must be accompanied by a certified check for not less than ten per cent of each bid, payable to the order of Jesse L. Herring, County Auditor. The successful bidder will be required to give a bond as provided by law. The right to reject any or all bids is hereby reserved.

CARL L. HAGGER,

Engineer, Blue Earth, Minn.

JESSE L. HERRING,  
County Auditor,  
Blue Earth, Minn.

Dated February 19th, 1915.

### NOTICE TO CONTRACTORS.

Library, Graceville, Minn.

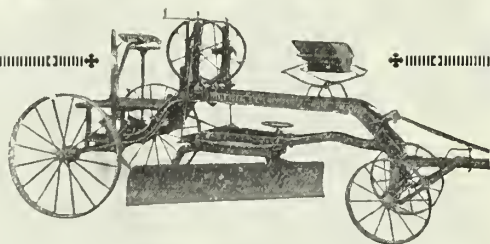
The Library Board of the City of Graceville, Minn., will receive sealed bids until 6 o'clock, P. M., March 20, 1915, for the erection of a one-story and basement Carnegie Library building, according to the plans and specifications prepared by F. H. Ellerbe, Architect, St. Paul, Minn.

Proposals must be accompanied by a certified check in the sum of five per cent of the amount of the proposal as a guarantee of good faith.

Plans may be inspected at the offices of the Architect and the Secretary of the Library Board, and at the Builders' Exchanges in St. Paul and Minneapolis, Minn.

The Library Board reserves the right to accept or reject any or all proposals and to waive irregularities.

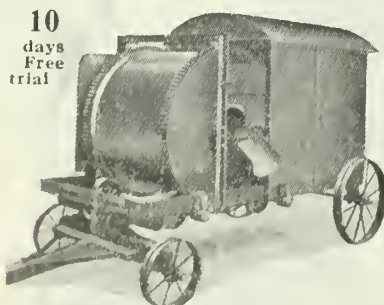
F. H. ELLERBE,  
692 Endicott Building,  
St. Paul, Minn.



### The Little Premier Steel Reversible Road Grading Machine

A powerful, dependable light weight Road Grader and Ditcher. For two or four horse pull. Steel construction throughout. Strongly built and reinforced. Fewest working parts--yet has all up-to-date adjustments within easy reach of operator.

The Galion Iron Works & Mfg. Co., Galion, O.  
606 Metropolitan Life Building Minneapolis, Minn.



10  
days  
Free  
trial

### Try Out This "New Way" Mixer on Your own job

You'll find that it will stand the hardest kind of work for the longest time at the least expense.

You'll find that it will do the work in about half the usual time.

It is built for speed, durability and economy.

Note this again. Our machines are sold on ten days' free trial, and our guarantee protects you absolutely. It is worth investigating. Get catalog E.

**E. WEGE CONCRETE MACHINERY CO.** 118 S. 2nd St. La Crosse, Wis.

## The Atlas Mixer



Furnished  
with  
Batch  
Hopper  
or  
Power  
loader

5  
and  
11 foot  
Capacity

### It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

### Atlas Engineering Company

MILWAUKEE, WIS.

1137-1138 Plymouth Bldg., Minneapolis, Minn.  
Telephones: Nicollet 5293. Center 2432.



**STEEL, ROOFING, ETC.**  
Power House, State Reformatory,  
St. Cloud, Minn.

Sealed proposals will be received by the State Board of Control, in their office in the State Capitol Building, at St. Paul, Minnesota, until 2:00 P. M., March 23, 1915, for the structural steel and cast iron work, steel sash and roofing and sheet metal work, required for Power House, State Reformatory, St. Cloud, Minn., in accordance with plans and specifications furnished by C. H. Johnston, Architect, 715 Capital Bank Building, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the Architect; no other form will be considered. Bids to be accompanied by a certified check for 5 per cent of the amount of the bid, payable to Minnesota State Board of Control, which check will be returned when building contract is executed.

Copies of above plans and specifications may be seen at Builders' Exchange at St. Paul, Minneapolis, and Duluth, Minn., at the office of the Board of Control, and at the office of the Superintendent of the Institution, St. Cloud, Minn.

Extra copies of the plans and specifications may be obtained on application to the architect on payment of cost of duplication. Successful bidders must furnish the Board with a surety company bond in 75 per cent of the amount of contract. The right is reserved to accept or reject any or all bids.

**BIDS SOLICITED.**

Rural Highways, Winona, Minn.

NOTICE IS HEREBY GIVEN, That the County Auditor of Winona County, Minnesota, will receive sealed bids for

the improvement and construction of State Rural Highways, numbers 85, 86, 87, 88, 89, 90, 91, 95 and 96 in Winona County, Minnesota, in accordance with Plans and Specifications therefor on file in the office of the County Auditor, and subject to the approval of the engineer of the State Highway Commission and County Auditor. Separate bids for the improvement of each of said roads must be submitted.

A separate contract for the improvement of each of said roads will be let to the lowest responsible bidder.

Such bids will be received at the office of the County Auditor of said Winona County in the Court House in the City of Winona, State of Minnesota, on the 23rd day of March, 1915, up to two o'clock P. M. No bid will be entertained which by more than thirty per cent exceeds the estimated cost of the construction and improvement of said roads respectively.

Each bid must be accompanied by a certified check upon a bank in Minnesota, and made payable to said County Auditor, in the sum of not less than ten per cent of the amount of the bid.

The right to reject any and all bids is reserved by said County Auditor.

A deposit of \$20.00 must accompany all requests for plans and specifications, which will be returned only to those presenting bona fide bids.

H. B. CHILDS,  
District Engineer,  
Winona, Minnesota.

PROPOSALS FOR BRICK MESS HALL. Department of the Interior, Office of Indian Affairs, Washington, D. C., Feb. 26, 1915, sealed proposals, plainly

marked on the outside of the sealed envelope; "Proposals for Brick Mess Hall, Pierre School, South Dakota," and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until 2 o'clock p. m., Mar. 30, 1915, for furnishing materials and labor for the construction of a brick mess hall at the Pierre Indian School, Pierre, South Dakota, in strict accordance with the plans, specifications and instructions to bidders which may be examined at the Indian Office, the U. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., and Omaha, Nebr., the Builders and Traders Exchange at St. Paul, Minn., at the school, and in the office of the newspaper in which this advertisement appears. For further information apply to the Superintendent of the Pierre Indian School, Pierre, South Dakota. Cato Sells, Commissioner.

**FOR SALE**

Twelve cubic foot Standard Mixer, equipped with folding platform, power pump and 125 feet 1½-inch hose for pumping own water, used less than two weeks, thoroughly overhauled and freshly painted, guaranteed to be in brand new condition, \$485.00 if taken at once for cash. Freight paid to any point within 100 miles. Write or wire PAUL N. KINGSLEY, Strawberry Point, Iowa.

(Continued on page 21.)

# THE HARDING MORTAR MIXER

Will Save \$10 to \$25 in Labor and Material on every job and more than pay for itself on every big job.

**EXTRACTS FROM RECENT LETTERS**

We are using The Harding Mortar Mixer in mixing the plaster on the Blackhawk Hotel, and we are saving with its use the wages of three laborers, \$6.75 per day. We could save more labor, but we are only mixing for twelve plasterers at this time; one man is doing all the mixing.

ULLRICH & FOSTER,  
Davenport, Iowa.

I feel that I am doing a fellow contractor a favor if this letter will influence him to try one of your machines, for patent plaster. Besides hair mortar and wood fiber, I have mixed cement mortar and top coat just as successfully.

GUARANTEE CONSTRUCTION COMPANY,  
Per Egglestine,  
Cedar Rapids, Iowa.

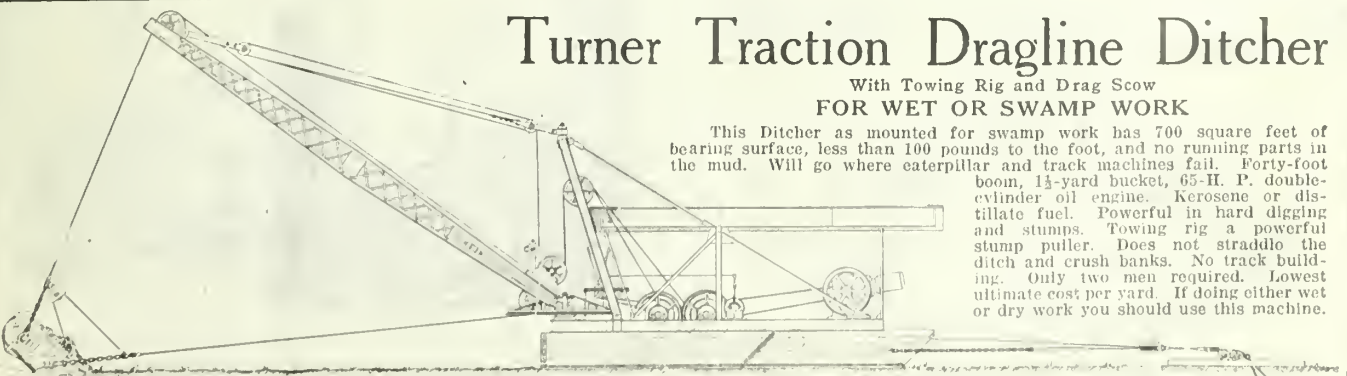
WRITE FOR SPECIAL PRICE ON FIRST MACHINE IN EACH TOWN.

**MORTAR MIXER CORPORATION, Iowa City, Iowa**

## Turner Traction Dragline Ditcher

With Towing Rig and Drag Scow  
**FOR WET OR SWAMP WORK**

This Ditcher as mounted for swamp work has 700 square feet of bearing surface, less than 100 pounds to the foot, and no running parts in the mud. Will go where caterpillar and track machines fail. Forty-foot boom, 1½-yard bucket, 65-H. P. double-cylinder oil engine. Kerosene or distillate fuel. Powerful in hard digging and stumps. Towing rig a powerful stump puller. Does not straddle the ditch and crush banks. No track building. Only two men required. Lowest ultimate cost per yard. If doing either wet or dry work you should use this machine.



**UNITED IRON WORKS COMPANY**

**SPRINGFIELD, MO.**



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn.

Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co.

YOUNGSTOWN, OHIO

MANUFACTURERS OF  
Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes  
Metal Studding, Furring Strips, Etc.

for Use with Expanded Metal Lath.

"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.

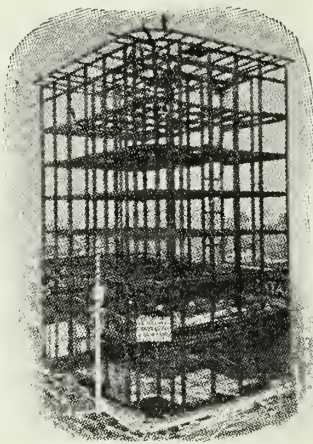
"Youngstown" Brand Expanded Metal  
In Gauges Nos. 7 to 20 Inclusive.

SEND FOR CATALOGUE

## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota

Lumber Exchange Building, Minneapolis, Minn.



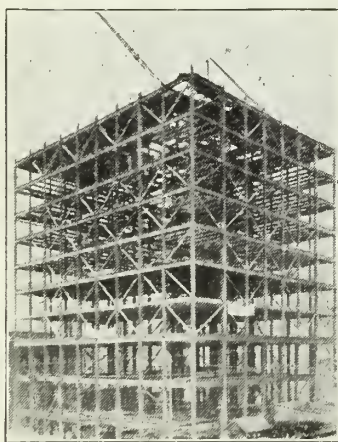
## Structural Steel

of every description, for all purposes. Structural Shapes and Reinforcing Rods kept in stock.

ESTIMATES GLADLY  
FURNISHED

## Clinton Bridge Works

CLINTON - IOWA



Water Works  
Plants, Water  
Towers, Stand  
Pipes, Structural  
Steel, Bridges,  
Fire Escapes,  
Road Drags, etc

## Des Moines Bridge & Iron Works

927 Tuttle St.  
DES MOINES, IOWA

## ST. PAUL FOUNDRY COMPANY

Designers and Builders of

## STEEL STRUCTURES

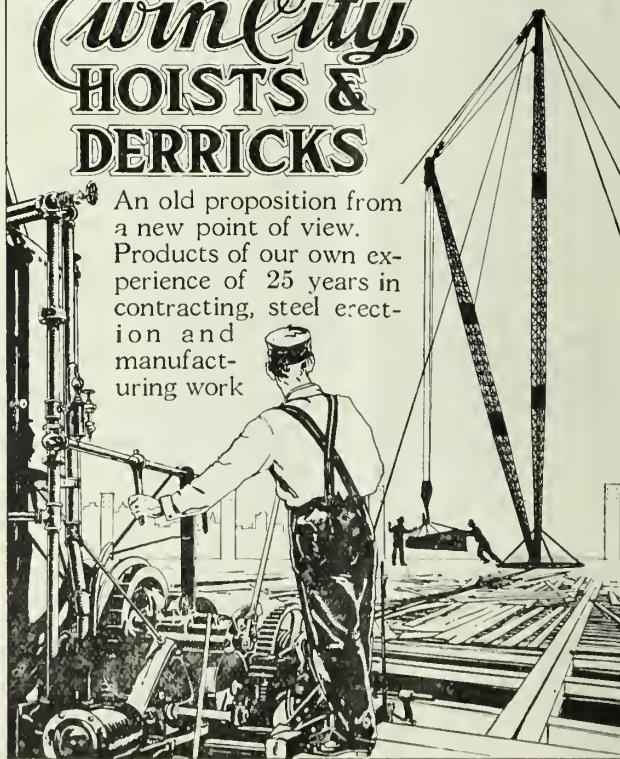
BRIDGES, COLUMNS, TRUSSES,  
MILL BUILDINGS, GIRDERS,  
TOWERS, TANKS, BEAMS,  
ARCHITECTURAL CAST IRON  
ORNAMENTAL IRON

OFFICES AND WORKS  
Como Av. and Mackubin St.

St. Paul, Minn.

## Twin City HOISTS & DERRICKS

An old proposition from a new point of view. Products of our own experience of 25 years in contracting, steel erection and manufacturing work



Steam, Electric and Gasoline. Our catalog may be worth money to you

## Minneapolis Steel & Machinery Co.

2853 Minnehaha Ave.

Minneapolis, Minn.



**NOTICE.**

Sealed bids will be received by the County of Lincoln County, Minnesota, on March 19, 1915, at 1 o'clock p. m., for the following material to be used in the construction of state road No. 1, Lincoln County, Minn.

**CEMENT**

450 barrels Portland cement to conform to standard specifications to be delivered F. O. B. cars at Ivanhoe, Minnesota, not later than May 1, 1915.

**STEEL**

6,700 pounds reinforcing bars, medium open hearth round steel bars in stock lengths from four feet to thirty feet long and sizes  $\frac{1}{2}$ -inch and  $\frac{3}{4}$ -inch diameter, to be delivered F. O. B. cars at Ivanhoe, Minnesota.

3,159 pounds reinforcing bars, medium open hearth steel, square twisted bars in stock lengths from nine to twenty-eight feet long and sizes  $\frac{1}{2}$ -inch to  $\frac{3}{4}$ -inch.

1,632 pounds reinforcing bars, medium open hearth steel in stock lengths, 18 feet and 32 feet long,  $\frac{1}{2}$ -inch square twisted.

11,072 structural steel consisting of I-beams, channels and angles as specified for bridge No. 1,275, plans for which are now on file.

281 pounds of tie rods and bolts and nuts as specified for said bridge 1,275.

**CORRUGATED METAL**

360 lineal feet of 18-inch diameter corrugated metal culverts, in 30-inch lengths.

540 lineal feet of 12-inch diameter corrugated metal culverts in 18-inch lengths.

All to be delivered F. O. B. cars at Ivanhoe, Minnesota.

**CRUSHED ROCK OR SCREENED GRAVEL**

300 cubic yards of 2,600 pounds each, to be delivered at railroad station at Ivanhoe, or at the site of each bridge or culvert on state road No. 1, as designated on plans and profiles.

The right is reserved to reject any or all bids.

Certified check of 5 per cent of amount to accompany all bids.

KARL A. HANSEN,  
County Auditor.  
ELMER KEELER,  
District Engineer.

**ROAD CONTRACTS**  
Glenwood, Minn.

Sealed bids will be received at County Auditor's office of Pope County, at Glenwood, Minn., until March 17, 1915, at 2 o'clock, P. M. Estimated price for excavation and grading \$16,833.97, surfacing \$713.86 and concrete culverts \$3,063.45. Plans and specifications on file with State Highway Commission at St. Paul and at my office.

O. W. LYENS,  
County Auditor.

**CHURCH.**  
Redwood Falls, Minn

The undersigned hereby gives notice that sealed proposals for the erection of a frame church, to be erected at Bechn, Renville County, Minn., including all labor and material, will be received by Rev. J. J. Tomek, Redwood Falls, Minn., until the hour of 2 p. m., on the 29th day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by W. F. Keefe, Architect of St. Paul, 304-5 American Bank, which may be seen at the residence of Rev. J. J. Tomek, Redwood Falls, Minn. on and

after March 11, 1915, and may also be seen on application to Builders' Exchange, St. Paul.

The right is reserved to reject any or all bids.

(Signed) W. F. KEEFE,  
Architect, St. Paul.

**PROPOSAL FOR BIDS FOR CITY HALL**  
Ames, Iowa.

Sealed bids will be received by A. B. Maxwell, City Clerk, of the City of Ames, Iowa, until 7 o'clock p. m., April 5, 1915, for the erection of a two-story and basement City Hall building, including the heating, plumbing and electric wiring, to be constructed according to plans and specifications prepared by Liebbe, Nourse & Rasmussen, Architects, 514 Utica Building, Des Moines, Iowa.

Separate bids will be received for the heating, plumbing and electric wiring.

Each bid must be accompanied with a certified check, in a separate envelope, for two per cent of the amount of the bid, said check to be drawn on some known responsible bank, and made payable to the order of the City Treasurer of the City of Ames, as a guarantee that the successful bidder will enter into a contract with the City of Ames within ten days after the said contracts have been approved by the City Council of said city, and have been adopted by a majority vote of the electors of said City of Ames, Iowa, at an election called for that purpose, and the work to be completed according to the plans and specifications prepared therefore by said architects and give a bond approved by the City Council in the sum of 50 per cent of the contract price, as a guarantee that he will complete his contract according to said plans and specifications and pay all bills for material and labor incurred in the completion thereof.

Plans and specifications may be had from the City Clerk or the Architects after March 15, 1915, by depositing \$10.00 as a guarantee that the plans and specifications will be returned in good condition. The right is reserved to reject any and all bids.

Published by authority of the City Council of the City of Ames, Iowa.

A. B. MAXWELL,  
City Clerk.

**SCHOOL BUILDING.**  
Willow City, N. D.

The undersigned hereby gives notice that sealed proposals for the erection of a one room and half basement school building, including all labor and material, will be received by Winifred Erdman, clerk of Willow Creek School District No. 6, until the hour of 2:00 P. M. on the 13th day of April, 1915.

All bids must be in strict accordance with the plans and specifications prepared by Ed. White of Mohall, N. D., which may be seen at his office, at the office of Winifred Erdman, clerk, Willow City, N. D., or the "Towner News-Tribune" office Towner, N. D., or the Builders' and Traders' Exchange, Minneapolis.

A certified check for 5 per cent of the bid payable to the order of Chas. F. Getzlaff, chairman Willow City, N. D., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in double the amount of the contract price for the faithful perform-

ance of the contract. The right is reserved to reject any and all bids.

WINIFRED ERDMAN, Clerk.

Place of letting, seven miles west of Willow City, at the home of Adolph Erdman.

Date, April 13, 1915.

**BANK BUILDING.**  
McCanna, N. D.

Wanted: Contractors to figure on the construction of a brick bank building. Plans and specifications at the architects' office of Louis F. Dow Co., St. Paul or Bank of McCanna, McCanna, N. D.

**NOTICE TO CONTRACTORS.**

**Bridges—Sibley, Iowa.**

Bids will be received by the Board of Supervisors up until one o'clock P. M., April 7, 1915, for the erection of two steel bridges and thirty-six (36) cement bridges and culverts, also for material for same.

Plans and specifications on file in Auditor's office at Sibley, Iowa.

D. W. Clayton,  
Auditor of Osceola County, Iowa.

**CHURCH.**  
Valley City, North Dakota.

Sealed proposals will be received March 25th, 1915, at 11 a. m., by the Building Committee of the First Congregational Church of Valley City, North Dakota, for the erection of a church and Sunday School Building.

All bids must be in strict accordance with plans and specifications prepared by E. H. McFarland, Architect, Valley City, North Dakota, which may be seen at the office of the Architect, at the St. Paul Builders' Exchange, and at the Fargo, North Dakota, and Grand Forks, North Dakota Builders' Exchanges. A certified check for \$1,000 much accompany each general bid; on heating, plumbing and electrical work, \$300.

The right is reserved to reject any or all bids.

FRANK WHITE,  
Chairman of the Building Committee,  
Valley City, North Dakota.

**OFFICE BUILDING.**  
Austin, Minn.

Sealed proposals for the erection of a one story and basement office building, including separate bids for plumbing and heating, will be received by the Board of Water, Electric, Gas and Power Commissioners, Austin, Minnesota, on or before 9 A. M. Monday March 22, 1915, in accordance with the plans and specifications prepared by F. W. Kinney, Architect, Plymouth Bldg., Minneapolis, and on file at the office of the Board and at the Architect's office.

Each proposal must be accompanied by a certified check for 5 per cent of the amount of the bid. Successful bidder will be required to give a surety bond.

The Board reserves the right to reject any or all bids.

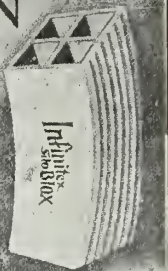
Water and Light Commissioners,  
J. D. SHEPHERD, Pres.  
J. C. TODD, Sec.

**FOR SALE AT A BARGAIN.**

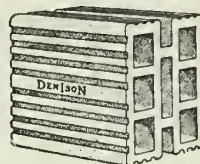
One 300-H. P. Twin City Cross Compound Corliss Girder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.



# AMERICAN Brick & Tile Co.

AMERICAN FIREPROOFING  
BLOCKMASON CITY  
IOWAAMERICAN  
DRAIN TILE

Manufacturers of Common and Hollow Brick, Hollow Building Blocks,  
Fireproofing and Partition Tile, Vitrified Drain Tile from 4 to 24 inches.  
WE ALSO MANUFACTURE THE INFINITEX SILO BLOCK



# DENISON LOAD-BEARING TILE

U. S. and Foreign Patents Pending.

## THE STRONGEST TILE IN THE WORLD

Guaranteed crushing strength, 600 pounds to the square  
inch.  
Superior for stucco exteriors or bonds perfectly with brick.  
Non-continuous mortar joints.  
Vertical webs directly over each other.  
Saving in cost erected of 25% over brick construction.

## FIRE-PROOFING

### MASON CITY BRICK & TILE CO.

MASON CITY, IOWA  
Makers of All Kindss of Silo Tile, Drain Tile, and Hollow  
Building Blocks.

# SAND-LIME COMMON AND FACE BRICK PARTITION AND BACKING TILE

BELT LINE BRICK COMPANY 512 ANDRUS BUILDING  
209 NEWTON BUILDING MINNEAPOLIS, - MINN.  
ST. PAUL, MINN.

# A. C. OCHS BRICK & TILE CO. BRICK

Manufacturers of the  
CELEBRATED A - C - O

SAND MOULD and WIRE CUT FACE BRICK and BUILDING TILE

Works: {Springfield, Minn. General Office: { Springfield, Minn.  
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# SAND MOLD CREAM COLOR BRICK

Daily Capacity - 250 M

THE RED RIVER VALLEY BRICK CORPORATION  
GRAND FORKS, N. D

POROUS HOLLOW TILE

# FIREPROOFING

HOLLOW TILE BLOCKS FOR RESIDENCES

## NORTHWESTERN FIREPROOFING CO.

107 Kasota Bldg  
MINNEAPOLIS

# NUVOGUE

## RUG FACE BRICK

Show a beautiful variety of shades and colors suitable to large and  
small buildings.

Boone Brick, Tile & Paving Co. Boone, Iowa  
Makers of Art Fashioned Brick

# NATIONAL FIREPROOFING CO.

CHICAGO

PITTSBURG

NEW YORK

## HOLLOW TILE CONSTRUCTION

HAROLD JOHNSON, N. W. Agent 1137 Plymouth Bldg.  
Minneapolis, Minn.

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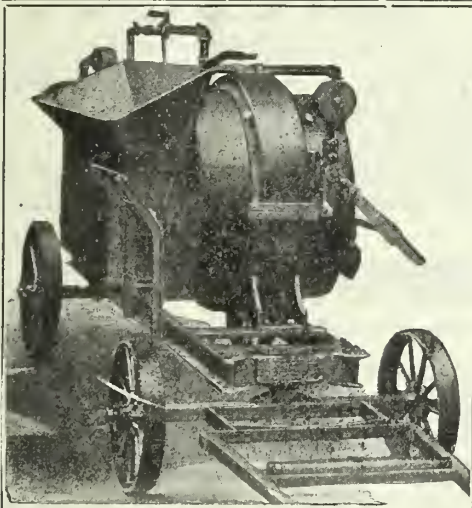
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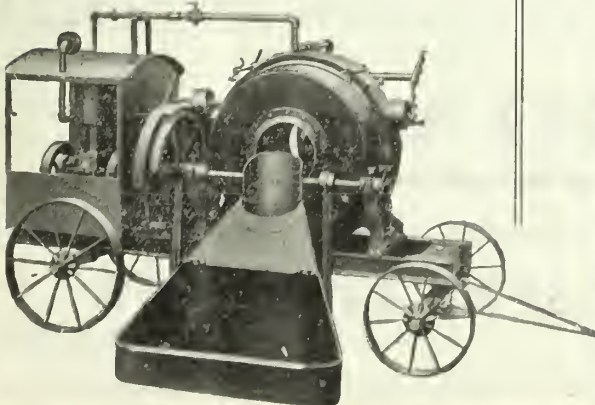
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3737-D Hadley St., Milwaukee, Wis.



#### St. Paul—(Continued from page 17.)

Mrs. Geo. J. Milton, 713 N. Y. Life, is building a modern dwelling on Wheeler near Summit, frame, 29x33, hot water heat, \$3,000; Rydeen and H. A. Ney, 753 University, builders.

J. C. Neimeyer, architect, 211 Dispatch building, has furnished plans for a 4-flat, 2-story, \$4,500, Walnut and 7th, for S. A. Hill, 254 W. 7th; frame, stucco, hot water heat.

A new building is projected for 30x100 feet on Wabasha, at 381-383, recently purchased through Davis & Lagerman, 301 Ryan Annex, for Boston Ground Rent Co.

The Orr bill in the legislature appropriates \$70,000 for aid to the city in building Snelling-Como sewer system, including state fair grounds and state farm school.

J. N. Neimeyer, architect, 211 Dispatch building, has furnished plans for a modern dwelling for V. Raulson, 1320 Dayton, frame and stucco, \$4,000; owner takes bids.

E. L. Masqueray, architect, Endicott building, is taking figures on church at Marshall, Minn., until March 15; and on school at Wells, Minn., until Mar. 18.

A wholesale building cost \$40,000 will be built by McMurray & Co., wholesale grocers, 9th and Cedar, at 9th and Resabel; concrete, 4-story.

City will buy for schools, 470,000 pressed brick, 1,700,000 common brick and 120,750 feet flooring.

### OMAHA, NEB.

The Omaha Gun club has started work on a club house; cost \$3,000; frame, logs, porches.

Morris & Co. will remodel a part of building damaged by fire.

#### MANDAN, N. D.

At Glen Ullin, a new school building, at Kildeer, two churches, new churches south of Richardton and at every town on the Northern Pacific branch line north of the city, are buildings planned. At Hazen a bank and drug store will occupy a brick office building. At Golden Valley, Kildeer, Beulah, Dunn Center, other brick blocks are contemplated. Conservative estimates have it that within the year 1915, there will be expended for new buildings in Morton, Mercer, Oliver, Dunn, Stark and Sioux counties around \$500,000.

Practically every architect and builder in this section is today looking forward to the opening of spring weather, and the beginning of the greatest building campaign the western section of North Dakota has ever shown.

In Mandan will be constructed the government \$65,000 post-office, a large brick block, a fireproof garage building, 50x140; a new high school costing approximately \$25,000, and numerous residences.

### SUPERIOR, WIS.

Question of building a \$75,000 municipal auditorium will be submitted to the people at an election to be held April 6; J. S. Konkil, mayor.

Bids are in on the culvert bridge on Hill av.; W. R. Russell, chairman, board of public works; bids in March 17, for paving Belknap st.; concrete or macadam.

### LINCOLN, NEB.

Plans are being drawn for a residence, 2½-story and basement, 44x44, \$35,000, at Seward, Neb., by Berlinghoff & Davis, architects, 610 Security Mutual Life building, Lincoln, for John Zimmerer, Seward; press and common brick, Bedford stone, brick design cornice, structural and ornamental iron, mosaic, two mantels.

Hotel and store building, 2-story and basement, 37x75, will be built at 7th and P sts., Architect J. G. Cordner, 529 Bankers' Life building, for John R. Bennette, 1520 L st.; architect taking bids; press and common brick and stone trim, two metal skylights, stone cornice, structural and architectural iron, mosaic.

Plans being completed for First National Bank, 1-story and basement, 25x60, \$7,000, Chappell, Neb. by J. R. Smith, architect, 5th floor, Nebraska State Bank building, Lincoln; press and common brick and stone trim, tar and gravel roof, metal skylight, stone cornice, structural and ornamental iron, mosaic.



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## SIoux CITY, IOWA

\*The Grand opera house, corner Jennings and 4th sts., has been sold to a corporation headed by Herman Galinsky for \$90,000. Mr. Galinsky announces that \$35,900 will be spent in making repairs and alterations to the building to give it a modern equipment throughout.

\*Plans will be furnished by Beuttler & Arnold, Security Bank building, for an apartment house to be erected at Pearl and 13th sts. by A. F. Nash. The building will be 2-story and basement, thoroughly modern throughout; brick will be the material with stone facings; estimated cost of construction, \$35,000.

Plans are to be furnished by G. W. Burkhead, Commercial block for a 2-story brick store building and lodge hall at Tripp, S. D., for Wm. Mikuska; cost of construction will be \$10,000; size 42x112.

Plans will be furnished by F. E. Colby, 509 Davidson block, for an academy at Hull, Iowa, for the Western Calvin society; material of wood, 2-story and basement, cost about \$5,000; house for John Ward, 508 Davidson block, to be built on Summit st. at a cost of \$7,000.

\*The bond issue for a new technical high school in Sioux City, at a cost of \$90,000, has carried; an architect will be selected in the near future.

\*Kincaid & Tennant, United Bank block, have been given the contract for building a residence for C. O. Fretheim, in Coles addition, costing about \$3,500.

\*Among the building permits for the week were: C. R. Morris, house, 2223 S. Lemon st., \$2,300; J. H. Mikesell, alterations in house, 2514 S. Cecelia, \$1,200; W. D. Ray, Jr., house, 2016 Castleman st., \$1,500; W. S. Gilman, store building, 6th and Pierce sts., \$100,000.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mail: news to Minneapolis office not later than Wednesday.

Herbst & Hufschmidt, architects, 721 Caswell block, will take figures after March 15, for the erection of a \$30,000 store and office building at Waukesha, Wis.; owners' name withheld; solid brick, 2-story, basement, 61x82; previously noted.

Fred Graf, architect, 521 Matthews building, is inviting select bids for the erection of a 2-story frame residence costing \$6,000 for Mrs. L. Haubner.

The Buestrin Construction Co. was awarded the general contract for wrecking and clearing first floor of the Belvidere apartment building, Grand av. and 8th st., to be remodeled into a hotel; Carl Barkhausen, 121 Wisconsin st., architect.

Clare C. Hosmer, 909 First National Bank, is ready for bids on a 2-story residence for Lewis Cret, Otto av., Wauwatosa.

Leenhouts & Guthrie, architect, 424 Jefferson st., will take bids after March 25, on the erection of a \$9,000 residence for John Horter on Bellevue pl. and Lake drive; brick and cement veneer, 2½-story, 31x48; hot water heat.

Robt. A. Messmer & Brothers, architects, 1004 Majestic building, will close bids late this week on a \$7,500 residence for Wm. A. Gettelman, care of Gettelman Brg. Co., Milwaukee, at Hi-Mount blvd., and Vine st.

The steel work on remodeling of E. R. Godfrey Co., cold storage and commission warehouse, Broadway, was awarded to C. Colnick Manufacturing Co., by Schnetzky & Son, architects, 712 Germania building.

Carl Barkhausen, architect, 121 Wisconsin st., is taking figures on a \$6,500 factory for Fred Oesterreich, 11th av. near Mineral st., of solid brick, 2-story, 25x50, with steam heating.

Hugo Miller, architect, 809 M. & M. Bank, awarded the general contract for a store and apartment house costing \$7,500, for Hugo Frey at Richards st. and Auer av., and a store and 2-flat building for A. Paschinsky at 580 3d st. to Levin & Bublow.

Gumz-Gutknecht & Wussow Co. has the excavating and grading contract on the 27-apartment building for Oscar Brachmann at Stowell and Bradford avs.; cost \$110,000; Martin Tullgren & Sons, architects.

H. C. Kelling Construction Co. was awarded the contract for building additional frame barracks at Bay View high school, Milwaukee; the same company also was awarded the contract for building an addition to the kitchen wing of the main pavilion at Lake Park, Milwaukee.

Val. A. Siebert, architect, 557 12th st., is awarding contracts on the following work: double store and duplex flat building, 36th and Cedar sts., \$10,000; bungalow for H. Bauch, 26th st. and Auer av., \$3,500.

Geo. Zagel, architect, 629 Walnut st., is preparing plans for

a \$6,000 frame duplex on 52d st., near Elm st., and a \$4,000 bungalow to be erected on 48th av., in West Allis.

The Badger Architects, 629 Walnut st., have the following work in hand: flat and office building and store for J. Goldberg, 10th and National avs., to cost \$12,000; 2-story and 6-apartment building costing \$15,000 at 7th and Walnut sts.; bungalow costing \$3,500 at 11th st. and Concordia av.; frame duplex costing \$6,500 at Frederick av. and Kendow blvd.; residence costing \$6,000 on Downer av.

Gustav A. Dick, architect, 811 State st., is now ready for figures on the following work: \$8,000 residence for John Reutemann, Hi-Mount blvd. and Vine st., one bungalow for August Behnke at Pewaukee Lake, with private water works system, costing \$15,000 complete; \$10,000 residence for Mrs. Emma G. Steinman, Hi-Mount blvd., near Washington blvd.; the residence will be of brick veneer, 2-story, about 36x50.

## DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

Building permits: T. K. Hicks, frame dwelling, 26th av. E. and 3d st., \$6,000; P. McDonnell, concrete block barn and warehouse, 24th av. E. and South st., \$3,500; O. L. Davis, brick dwelling, 16th av. E. and 2d st., \$6,500; N. J. Ketcheson, frame dwelling, Wabasha st. and Maxwell av., \$2,000; J. Jensen, frame dwelling, 64th av. W. and Main, \$2,000; J. Dahl, brick dwelling, Lake av. and 5th st., \$5,500; G. Gougea, frame dwelling, 47th av. and Tioga st., \$1,500; F. Aueran, frame dwelling, 22d av. W. and 13th st., \$3,000.

\*Plans are being prepared by Fred H. Waldron, consulting engineer, Torrey building, for an industrial plant to be erected in West Duluth for the manufacture of concrete products; will be out for figures about April 15.

\*V. J. Price & Co., architects, Palladio building, have prepared plans for a 2-room frame school, district 75, Kelsey, Minn., about \$5,000; address John Mattson, Kelsey, Minn.

\*Bids are being taken on the residence of Jos. Wilde, 1609 E. 7th st.; 6-room frame house, stone foundation; Arthur Hanford, architect, Sellwood building.

\*Figures are now being taken by the Lakeside Land Co. on two small frame residences; 6-room, stone foundation, hot water heat; about \$3,000 each; Arthur Hanford, architect, Sellwood building.

\*Kelly & Williams, architects, First National Bank building, are preparing plans for the fire hall at Cloquet, Minn.; brick about \$12,000; plans out about April 1.

## PUBLIC BUILDINGS

Iowa, Eldora—Blue prints of a possible new municipal building or city hall have been submitted to the city council, costing \$15,000; would have to be voted on by the people; address city clerk.

Iowa, Primghar—Plans and specifications will be ready to let contract for O'Brien county court house in May; 77x115, \$150,000; Bedford stone; J. B. Stamp, county auditor.

Iowa, Sioux City—Plans being prepared for proposed Woodbury county court house, provide for four stories, 150 feet square and a 6-story tower, 60 feet square and 10-story; W. L. estimated cost of \$6,830; James E. Carew, county clerk.

Minn., Cloquet—Bonds in the sum of \$12,000 will be voted on at a special election March 8, for a new fire hall; H. A. Parks, city clerk.

Minn., Fairmont—City clerk instructed to send to the Diebold Safe & Lock Co. for plans and specifications for three new cells to be placed in the city hall; H. B. Tuttle, city clerk.

Minn., Litchfield—Committee on court house recommend a steel ceiling on the second story of the building and also a new roof; A. O. Palmquist, auditor of Meeker county.

Minn., Stillwater—An appropriation of \$57,000 is under consideration in the legislature for a woman's prison building and two barns; board of control for information, St. Paul.

Mont., Great Falls—Proposition has been made the city by the Dalby-Lockhart Co. to secure a franchise for a municipal heating plant; may be voted on in April; address city clerk.

Mont., Hamilton—Plans for proposed Carnegie library building will probably be revised; M. A. White, chairman, committee.

Mont., Miles City—Low bidder for the proposed government building here was Hiram Lloyd Building & Construction Co. of St. Louis, at \$92,517.

Mont., Red Lodge—City is expected to vote on city library, \$15,000 to be furnished by the Carnegie foundation; address city clerk.



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**Neb., Aurora**—Citizens taking steps to procure city hall with fireproof hall and fire department; address city clerk.

**Neb., Broken Bow**—Plans have been received for proposed Carnegie library building, and library board will soon advertise for bids; address the secretary.

**Neb., Wahoo**—Women's club working for a \$15,000 city library; address the mayor.

**N. D., Steele**—Sketches of Hancock Brothers, architects, Fargo, N. D., approved by county commissioners of Kidder county for remodeling of court house; bids called for April 8; working plans and specifications ready march 22; J. C. McWhinney, county auditor.

**Okla., Okmulgee**—Okmulgee county will vote on a court house proposition, also jail, on April 6; address county clerk.

**Ore., Grant's Pass**—Proposed court house will be 3-story, fireproof and cost \$150,000; E. E. McClaren, architect, Lumber Exchange building, city.

**Wash., Olympia**—State senate has passed capitol commission bill authorizing expenditure of between \$2,500,000 and \$4,000,000 to pay debts of the capitol fund and enable resumption of work on new group plan state house.

**Wash., Seattle**—Plans completed about March 25, for a 4-story frame and concrete wharf and warehouse at foot of Marion st.; L. R. West, engineer of Port Commission.

**Wash., Walla Walla**—Plans completed for proposed 2-story reinforced concrete court house, estimated to cost \$150,000; reported bids will be received by the county commissioners about April 10.

**Wis., Chappell**—Bids received by J. G. McCormick, county clerk, until noon, March 27, for a court house building, including a jail; John H. Haddart, architect; check for \$500.

**Wis., Colfax**—Municipality is considering a city hall, with accommodations for a library, auditorium, fire hall, jail, etc.; address city clerk.

**Wis., Oshkosh**—County board authorized committee on public buildings to take all steps necessary for remodeling basement in east wing of court house at a cost not to exceed \$9,000; John J. Fish, county clerk.

**Wis., Superior**—City commission will take expression of the people at the April election on the building of a municipal auditorium; address city clerk.

**Wyo., Douglas**—Converse county commissioners have adopted plans for \$40,000 court house; address county clerk.

#### BIDS WANTED.

**Iowa, Ames**—Bids received by A. B. Maxwell, city clerk, until 7 p. m., April 5, for city hall building, including heating, plumbing and electric wiring; 2-story and basement; Liebbe, Nourse & Rasmussen, architects, Des Moines, Iowa; plans on deposit of \$10; check for 2 per cent; officially advertised in this issue of the Improvement Bulletin.

**Minn., St. Cloud**—Bids received by state board of control, St. Paul, Minn., until 2 p. m., March 23, for the structural steel and cast iron work, steel sash and roofing and sheet metal work required for power house; check for 5 per cent.

**Neb., Harvard**—Bids received by J. E. Tillotson, secretary, until noon, March 15, for erection of public library; check for 5 per cent.

**N. D., Hillsboro**—Bids received by Nels O. Lindaas, auditor of Traill county, until 10 a. m., April 7, for concrete floor in jail basement, steps and stairs.

**S. D., Pierre**—Bids received by Cato Sells, commissioner Indian affairs, Washington, D. C., until 2 p. m., March 30, for a brick mess hall for Pierre Indian school; officially advertised in the Improvement Bulletin this week.

**Texas, Corpus Christi**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., April 19, for construction complete (including mechanical equipment, except elevator, and approaches), for the U. S. post office, court house and custom house; specifications after March 20, (not the 12th).

**Wash., Seattle**—Reported bids are wanted until March 24, by the Port Commission for fish storage building on E. Broadway; cost about \$50,000.

**Wis., Wausau**—Bids received by John Ringle, chairman, board of public works, until 2 p. m., March 15, for repainting of seven street sprinkling wagons; check for 5 per cent.

#### CONTRACTS AWARDED.

**Iowa, Primghar**—Contract has been made with Smith & Keffer, architects, Des Moines, for the new court house; J. B. Stamp, auditor of O'Brien county.

gine, etc., for fire department; probably bids will be taken later on a combination hose and chemical wagon and engine; E. Floe, clerk.

**Minn., Chisholm**—Contract awarded to the Star Electric Co. for switchboard for the fire department.

**Minn., Duluth**—Contracts for motor service truck for the fire department and automobile for Chief Randall, awarded to the American-La France Fire Engine Co., and the Inter-State Auto Co., at \$5,750 and \$2,000.

**Minn., Nevis**—Election will be held March 9, 9 a. m., for purpose of voting \$200 bonds for purchase of fire apparatus.

**Mont., Belgrade**—Enos T. Reese was elected chief of fire department for ensuing year; Albert J. Jacobson, assistant chief.

**Wis., Fond du Lac**—Common council has awarded the contract to the Thom Auto Co. for two motor driven vehicles; both to be White gasoline machines.

**Wis., Wausau**—Special committee has reported favorably on purchase of an automobile fire truck.

## ELECTRICAL

**Mont., Belgrade**—Two crews of electric engineers are now stationed at Maydlow for construction work on the electrification of the Milwaukee road, from Three Forks to Harlowtown.

**Mont., Deer Lodge**—Hearing March 8, 8 p. m., on proposition of installing a cluster light system on both sides of Main st., cost \$6,000; I. S. Eldred, city clerk.

**N. D. Lidgerwood**—The Lidgerwood Mill Co. will within the next six months purchase electrical supplies, a number of electrical ranges, vacuum cleaners, washing machines, etc., also within next 12 months to purchase incandescent lamps amounting to \$300; W. R. Movins, president.

**Wis., Ashland**—A telephone company has been organized here and a new telephone line will be installed. A. L. Wilcott, manager of Bayfield Exchange, and D. U. Parkinson, manager of Ashland Exchange.

**Wis., Milwaukee**—Hydro-electric plant at Johnson Falls, Wis., cost about \$300,000; company is composed of the Northern Hydro-electric Power Co., Green Bay Electric Railway Co. and Green Bay Gas & Electric Co., all operating in North-eastern Wisconsin, Clement Smith, president, Milwaukee.

**Wis., Milwaukee**—Wisconsin Public Service Co., at its annual meeting surveyed tentative plans for a hydro-electric generating plant to be constructed at Johnson Falls, Wis., during the year; a large plant is now operated at High Falls, Wis.; Clement C. Smith, president, Milwaukee.

#### BIDS WANTED.

**N. D., Bismarck**—Bids received until Mar. 20, for erection and completion of about 70 miles or more of telephone line with 60 phones at the office of G. G. Klein, Krem, N. D.; check 5 per cent.

**S. D., Madison**—Bids received until 8 p. m., March 29, for furnishing and installing one engine of approximately 350 h. p.; bids received on both crude oil and producer gas engines, one 2,200-volt, 60-cycle, 2-phase generator; also exciter, three switchboards, panels with instruments; plans with City Auditor Wm. Rae, and with Engineer Chas. A. Trimmer, Madison, Wis.; check \$10.

**Wis., Milwaukee**—A. C. Eschweiler, architect, Goldsmith building, will take bids until March 17, for erection of a new Mitchell Exchange building for the Wisconsin Telephone Co., at 17th av. and Mitchell st., reinforced concrete, and fireproof construction, 3-story and basement, 69x60; 1st story limestone; pressed brick above; cost \$75,000.

#### CONTRACTS AWARDED.

**Minn., Fairmont**—Contract awarded to the Electric Supply & Construction Co., of Mankato, for electric wiring of the county poorhouse.

**N. D., Grand Forks**—Contract awarded to Grand Forks Concrete Co., at \$6,870, for extension of light plant; other bids were: M. L. Bartlett, Fargo, N. D., at \$7,995; Northern Construction Co., Grand Forks, at \$8,200; E. A. Braseth, Grand Forks, \$8,275; A. S. Dinnie, Grand Forks, \$9,076; A. H. Savage Co., St. Paul, Minn., \$9,600; W. B. Saunders, Minneapolis, \$9,000.

**Wis., Black Creek**—Village board awarded general contract for the construction of a complete municipal electric light plant to the Foote Engine Co., Springfield, O.

## FIRE APPARATUS

**Minn., Belle Plaine**—Borough council has decided to purchase more fire hose, about 600 feet, for the fire department; bids called for soon.

**Minn., Blue Earth**—No bids were taken on the chemical en-

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## HOTELS AND HOSPITALS

**Iowa, Des Moines**—Work on the five stories to be added to the Chamberlain hotel will be begun about April 1, about 200 rooms being added, besides a ball room and roof garden; W. E. Bayfield, Lima, O., owner.

**Iowa, Lowden**—A. F. Clemmens has purchased site and will build a hotel.

**Iowa, Spencer**—The Commercial hotel damaged by fire to amount of \$5,000 or \$6,000, and only partially insured.

**Kan., Wellington**—Plans will be ready about March 25, and contract to be let about April 15, on a hospital for Dr. A. R. Hatcher; H. S. Conrie, architect, Reacon building, Wichita; 44x65, 3-story, \$15,000; hollow tile and concrete, Carthage stone, Barrett specification roofing, concrete foundation and cornice, d. s., plate and opaque glass, steam heat, wood, tile and composition floors, yellow pine and oak finish, boiler, decoration, passenger elevator, three grates and mantels, motor, dynamo, electric bells, fireproofing, iron beams and stairs, vacuum cleaner, refrigerator, plumbing, electric wiring, telephone system, ventilators, fire brick, etc.

**Minn., Bemidji**—Geo. Cochran has submitted a plan to the Merchants' Association for the building of a summer hotel to cost \$10,000; to be located at the head of the lake and to accommodate 100 guests.

**Minn., Granite Falls**—Plans for sanitarium completed; 3-story and basement, \$40,000; Sund & Dunham, architects, Andrus building, Minneapolis; Downer Mullen, state board of control, St. Paul, Minn.

**Minn., Wabasha**—Plans for a tuberculosis hospital by Hoffman & Mosse, architects, Rochester, Minn., have been accepted; cost, \$30,000.

**Mont., Belmont**—Contract to O. W. Hardin for hotel to be built by Harry Grant; brick veneer, 25 rooms.

**Mont., Judith Gap**—John Dolan will have plans drawn for a 25-room hotel; 3-story, modern, full basement; cost \$15,000.

**Neb., Winnebago**—Plans and specifications completed for converting dormitory and laundry in connection with the Winnebago Indian school into a hospital; S. A. M. Young, authorized to do the work, either in open market or through contract; several thousand dollars involved.

**Neb., York**—Bids received by O. Batz, secretary board of directors, until 2 p. m., March 18, for a hospital building for the Evangelical Lutheran Hospital Association; plans by W. F. Gernandt, State Bank building, Omaha, Neb.; 2-story and basement, including wiring, plumbing and heating; plans for deposit of \$25, for general contract, \$15 for heating and plumbing, and \$10 for wiring and conduit; checks from bidders for \$1,000, \$500 and \$100.

**Neb., York**—Directors of the Lutheran hospital have selected a brick known as the "Goldenrod," made at Coffeyville, Kan., for the construction of the building; yellow and tan.

**S. D., Webster**—A contract has been made to build an east wing to the Peabody hospital, work to begin as soon as weather permits.

**Texas, Greenville**—Contract to J. F. Denning, Mexia, for a 3-story reinforced concrete, steel and brick hotel for Maj. W. L. Beckman.

**Wis., Black Creek**—Appleton house burned; loss, \$5,000.

**Wis., La Crosse**—Two additions will be made to St. Francis hospital this season, totaling an expenditure of \$100,000; one to be 3-story, with elevator and another of 4-story; also with an elevator; brick, tile and concrete; contract not let, but it is said only local bidders will be permitted to compete.

**Wis., La Crosse**—C. W. Baker has purchased site and will enlarge the Stoddard hotel with a 75-room extension.

**Wis., Milwaukee**—The Wisconsin district of the Walther league has begun a campaign to raise \$20,000 for a home for working girls; A. H. Koepke, treasurer, league.

**Wis., Stevens Point**—An 85-room hotel may be built here, promoted by Geo. B. Herman of Antigo; cost to be \$100,000; one-half to be taken in Antigo, balance outside; address secretary. Business Men's Association.

**Wis., Wyocena**—Bids received by H. R. Tongen, clerk of Columbia county, until 2 p. m., March 23, for a poor house and central heating plant on the farm for the treatment of the chronic insane; check for 5 per cent.

## PARKS AND CEMETERIES

**Iowa, Hamilton**—A new park will be established here.

**Mont., Lewistown**—Engineer Birkland is preparing sketches for improvement of the city park in Park addition.

## THEATRES AND HALLS

**Iowa, Albia**—Extensive improvements will be made by Mr. Crabtree on the Lyric theater.

**Iowa, Ft. Madison**—Ben Schulte and Jos. Doering have contract on club house at Mormon Springs for the Tannenbaum club.

**Iowa, Marshalltown**—The Red Men, lodge No. 40, have appointed a committee, Hans Peterson, chairman, to prepare articles of incorporation for a building organization to finance the project.

**Iowa, Shenandoah**—Masons will remodel business building and add story for lodge room; brick and stone; address secretary.

**Iowa, Sioux City**—Elks have approved preliminary plans for new lodge building, cost \$70,000; architects will prepare specifications, and bids will probably be called for in a short time; address the secretary of No. 112.

**Iowa, Tipton**—An opera house to cost \$25,000 will be built here by the Odd Fellows of Manitou lodge, No. 8; address the secretary.

**Mich., Ishpeming**—Building committee of Zenith lodge, Knights of Pythias, will erect new building; sketches being drawn by J. S. Wahlman, and lodge will soon decide on kind of building it wants.

**Minn., Delano**—The new Comet will have raised floor, asbestos booth, patent screen, etc.

**Minn., Hendrum**—A. M. Eckmann will contribute one-fourth to cost of building a \$4,000 hall, for the use of the community for various purposes.

**Minn., Mt. Iron**—Bids for the proposed village hall were as follows: Jas. Sampson, Virginia, \$22,347.45; Virginia Builders' Supply & Contracting Co., \$21,190; P. J. Donohue, Virginia, \$23,929; Johnson & Watne, \$21,600; David Graham, Hibbing, \$22,300; Pearson & Sons, Duluth, \$22,155 and Johnson & Eggen, Ashland, Wis., \$21,000.

**Minn., Red Wing**—Sketches have been accepted from Geo. A. Blewett, architect, Endicott building, St. Paul, for a club house for the Commercial club.

**Minn., Winona**—Reported bids will be taken by architect about April 10 on Y. M. C. A. building; 70x70, 2-story and basement, \$30,000; Arthur N. Starin, architect, Providence building, Duluth.

**Mont., Butte**—Plans completed for club house for Butte Country club; Wilson & Cutting, architects; rustic bungalow type, tapestry brick veneer for first story, shingle and rough board for second, glass enclosed sun porch, porte ochre covered driveway, beamed ceiling, paneled walls of stained wood, locker rooms with steel lockers, shower baths; approximate cost \$20,000.

**Mont., Glendive**—Lloyd W. Lamb will remodel the Cozy play house, extending it back 50 feet, so as to accommodate 450 people; will also redecorate.

**Mont., Helena**—Odd Fellows will build lodge home on Main st.; 3-story, modern; address the secretary.

**Mont., Livingston**—Sketches for proposed auditorium to be built by the Odd Fellows' being made by Carl H. Turk, cost about \$25,000; C. S. Nuzman, chairman, building committee.

**Mont., Livingston**—Elks decided to go ahead with building of a home; A. W. Miles, chairman, building committee; Lewis Terwilliger, secretary.

**Neb., Fremont**—Lodges of the city are planning to erect building for lodge uses; 2-story, frame.

**Neb., Gering**—Masons and Odd Fellows will get together in erection of lodge home.

**Neb., Hastings**—Architect's sketches for Country club submitted; 2-story, two kitchens, two locker rooms and baths, dance floor, 30x44; address secretary, club.

**Neb., Omaha**—Masonic lodges have decided to build a temple; 8-story, fireproof, \$300,000.

**Neb., St. Paul**—The Commercial club has started a campaign for a Y. M. C. A. building; address secretary club.

**Neb., Trenton**—An opera house and lodge hall will be erected, work to begin soon; address the mayor.

**Neb., Wahoo**—Plans for the proposed Commercial club building are being worked out by E. E. Placek, vice president of the club.

**S. D., Broadland**—Odd Fellows making active preparations to build this spring, cost from \$4,000 to \$5,000; building to be, 80x36, 2-story, lower story for business purposes; address the secretary.

**S. D., Ramona**—Odd Fellows have concluded arrangements for a \$4,000 lodge building; address the secretary.

**S. D., Sioux Falls**—Plans completed for Elks' home by Jos. Schwartz, architect, \$75,000; J. E. Brown, secretary.



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**Wis., Antigo**—Plans for the new Hanson theater, prepared by H. T. Liebert, have been accepted by P. J. and Harvey Hanson; 185x44, upholstered seats for 1,500, front of new process concrete resembling white marble, heavy metal and glass canopy, supported by chains; contract for construction will be let in about two weeks.

**Wis., Marion**—Plans for \$10,000 city hall and theater to be drawn by C. C. Fritz of Shawano.

**Wis., Mazomanie**—Corporation being formed to be known as the Mazomanie Auditorium Co., to build an amusement hall, library room, etc., H. E. Trager for information.

**Wis., Milwaukee**—The Girard syndicate will build a theater for vaudeville and moving pictures in S. Milwaukee; 60x120.

**Wis., Milwaukee**—Competitive sketches for an Odd Fellows' hall, costing between \$15,000 and \$20,000, will be received by F. A. Steindler, chairman, 714 3d st., until March 15.

**Wis., Neenah**—Funds being solicited for a coliseum to cost \$3,500; address secretary, Commercial club.

**Wis., Oshkosh**—Winnebago club will build club house to replace the one destroyed by a cyclone last fall; E. C. Leach, secretary-treasurer.

## SCHOOLS

**Iowa, Belle Plain**—Newhall will vote on issue of \$16,000 bonds for erection of new school; election March 27.

**Minn., Fertile**—Bond issue of \$32,000 was voted for erection of modern school, 19-room, gymnasium, baths, etc.

**Minn., Petersburg**—Architect Kirby T. Snyder of Minneapolis, 643 Plymouth building, has been selected to prepare plans for a grade school, 2-story and basement, cost \$20,000; plans out about April 15.

**Minn., St. Paul**—City council has authorized purchase of 75,000 pressed brick, 1,700,000 common brick, and 120,750 feet lumber and flooring, for schools.

**Mont., Billings**—Plans for new addition to the Jefferson school, submitted to the school trustees, district No. 2, by Dedrick & Piper, architects, were approved, addition of 4-rooms and basement; cost \$21,000.

**Neb., Bethany**—Bonds have been voted for a 2-story and basement school; cost \$20,000; address board of education, care of J. O. Rowlands, 307 N. Saunders st.

**Neb., Kimball**—Town voted \$20,000 for new grade school; work to begin in spring.

**Neb., Weeping Waters**—Plans will be prepared by Architect F. W. Clarke of Omaha, for new school building addition.

**Wis., Waukesha**—Common council will hold a special meeting March 15, on proposition of issue of \$134,000 school bonds for purchase of acreage and construction as follows; high school, \$75,000 to \$100,000; Park school, \$20,000; central heating plant, for new and old high school and Union school, \$25,000; Geo. B. Harris, president, board of education.

### BIDS WANTED.

**Iowa, Storm Lake**—Bids will be taken the middle of April by county superintendent of schools of Buena Vista county, for erection of consolidated school; cost \$12,000; 1-story and basement; for further information address county superintendent; Elmer W. Martin, architect, Storm Lake, Iowa.

**Minn., Duluth**—Bids received March 29, 1 p. m. for erection of the Lincoln junior high school.

**Mont., Murphy**—Bids received until March 20, 2 p. m., for an 8-room school district No. 14; plans at office of clerk, I. Murphy; also at office of architects, Linke & Hare, Helena.

**Neb., Lincoln**—Bids will be received until 2 p. m., April 5, for special desks, tables, cabinets, and other equipments for new high school, to include permanent equipments for the chemistry, physics and botany laboratories, fixtures for commerce rooms and supply cases for class rooms; plans at office of architects, Berlinghoff & Davis, Lincoln, Neb., or with secretary, school board; address, G. H. Ellsworth, superintendent of construction, Lincoln.

**N. D., Bismarck**—Bids received until April 1, 2 p. m., for a 1-room frame school building in Missouri township, Burleigh county; plans with C. L. Vigness, county superintendent, Bismarck, and with clerk, Katie Stewart; A. Van Horn, architect, Bismarck.

**N. D., Devils Lake**—Bids received until March 22, 6 p. m., for construction of a cistern, coal bin, and outside stairway, at Lincoln school; bids received at same time and place, for plumbing to cistern; plans by John Marshall, architect, on file at office of clerk and architect; check \$50; A. E. Parshall, clerk.

**N. D., Edmunds**—Bids received until April 10, for remodeling present school building by E. S. Dodge, clerk; plans by Architect Gilbert R. Horton; plans on file at office of county superintendent, Jamestown, N. D., office of T. N. Putman

Lumber Co., Carrington, N. D., Salzer Lumber Co., Edmunds, N. D.; check 10 per cent.

**N. D., Linton**—Bids received until April 10, 2 p. m., for erection of three schools in Lipps school district No. 28; plans with county superintendent, Linton. Casper Burgad, Jr., clerk, Strasburg, N. D.

**N. D., Willow City**—Bids received until 2 p. m., April 13, for erection of a 1-room and half basement school, Willow Creek school district No. 6; plans by Ed. White, architect, Mohall, N. D., on file with clerk, Winnifred Erdman and at Builders' & Traders' Exchange, Minneapolis, News Tribune, office, Towner, N. D.; check 5 per cent; see official advertisement in the Improvement Bulletin this week.

**S. D., Rapid City**—Bids received until March 30, 2 p. m., for installation of a heating plant in the school; plans by H. E. Waldron, architect, on file at architect's office; check 2 per cent; John C. Haines, president school board.

**Wis., Embarrass**—Bids received until April 1, for steam heating system in state graded school, by board of education, Wm. Anton, clerk.

**Wis., Madison**—Board of education will take sealed bids until March 22, for new Lincoln graded school, Gorham st.; plans by Claude & Starcke, architects, Madison, Wis.

**Wis., Milwaukee**—Bids received until March 27, 2 p. m., for \$75,000 public school for joint district No. 12, Greenfield and Wauwatosa townships, Fred Funke, clerk 82 83, Loan & Trust building, Milwaukee, Robert A. Mesmer & Bro., 1004 Majestic building, architects.

## CONTRACTS AWARDED.

**Iowa, Oskaloosa**—Plans prepared and contract awarded to Buckler & Robertson of Oskaloosa, for 1-story school, 60x76, brick, cost \$15,000; J. W. Trafzer, architect, Mason City, Iowa; steam heat, electricity, composition roof, patent plaster, metal lath, corner bead, paint, varnish, plate, prism glass, maple floors.

**Minn., Middle River**—Contract awarded to the Northern Construction Co., of Thief River Falls, for building of new school, including plumbing and heating.

**Mont., Lake Basin**—Contract awarded to O. M. Gaudmanson, of Lake Basin, at \$2,335, for two schools in district No. 32, Stillwater county.

**N. D., Devils Lake**—Contract awarded to E. W. Gilbertson of Devils Lake, for furnishing supplies and furniture for the Fort Totten Indian school.

**Wis., Prairie du Chien**—Contract awarded to Anton Zwack, of Dubuque, Iowa, for 5-story reinforced concrete dormitory building; foundation in; cost \$125,000.

## RESIDENCES

**Iowa, Emmetsburg**—Plans prepared by R. R. Mayberry, architect, Cedar Rapids, Iowa, for a frame bungalow, 28x44, cost \$5,500; for J. H. Wilson; tile foundation, press brick, Bedford stone, shingle roof, plate and d. s. a. glass, wood fibre plaster, hot water heat, oak floors, hardwood finish, bath-room, electric lights, hollow tile, two mantles, metal lath, plumbing.

**Iowa, Marshalltown**—W. T. Bennett will erect a modern dwelling to cost about \$4,000; 2-story, 28x34.

**Minn., Fergus Falls**—A 2-story frame and stucco residence will be erected by Sam Christiansen, 30x30, cost \$4,500; common plaster, city water, wood shingle roof, common plaster, owner builds.

**Minn., Fergus Falls**—Plans prepared by Architect Z. O. Kasso of Fergus Falls, for a 1½-story frame and stucco residence, for Wm. Galena; 24x28, cost \$3,000; hot water heat, city water, electricity, common patent plaster; S. W. paint, Marmot S. W. varnish, oak finish, maple floors.

**Minn., Madison Lake**—Bids received on bungalow for Chas. J. Popeka were: Olinger & Muellerhide, Mankato, at \$3,880; Conrad Wolf, Mankato, \$2,832; G. W. Allen, Madison Lake, \$2,700; J. B. Keing, Mankato, \$2,567; Mahlike Bros., Mankato, \$2,556; T. H. White, Madison Lake, \$2,200; no contract let yet; Albert Schippel, architect, Mankato.

**Neb., Hastings**—Plans are being prepared for a modern apartment house which Hugo Polenske plans to build, brick, 40x50.

**Neb., Omaha**—Geo. W. Condon plans to build a modern residence, cost \$10,000, in Evanston.

**Neb., St. Paul**—Plans are being prepared for a modern residence for Chas. Iams.

**Neb., Valparaiso**—Walter Giffen plans to build a modern residence in the spring.

**Neb., Wayne**—E. A. Johnson will erect a modern residence.

**Neb., Weeping Waters**—D. M. Johnson will erect a modern residence.





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**N. D., Leith**—Albert Challengren will erect a modern residence; plans by Contractor Lokhammer; steam heat, etc.

**Wis., DePere**—Martin Aerts will build a modern brick residence in Ashwaubenon in the spring.

**Wis., Superior**—Permit issued to Henry Osmundson for erection of a modern residence, cost \$3,500, and to Edward Peterson, for residence; cost \$1,000.

## CONTRACTS AWARDED.

**Minn., Glencoe**—Will Krueger has let contract to Jens Jual of Hutchinson, for erection of a modern \$6,000 frame and stucco residence.

**S. D., Sioux Falls**—General contract awarded to P. Fugelberg, for carpenter work and P. T. Stadum, for mason work, on residence of P. T. Stadum, frame, 2-story, 24x28, cost \$3,000; plans by Jos. D. Livermore, architect, Sioux Falls, S. D.; furnace heat, electricity, asphalt shingle roof, fir finish.

## CHURCHES

**Iowa, Bancroft**—Contract awarded to Schwartz & Co. of Rochester, Minn., for new Catholic church at \$49,750; plumbing, heating and lighting awarded to A. A. Young & Co., at \$3,125.

**Minn., Eveleth**—Bids received until March 10, 12m., for Italian Catholic church; frame; plans and specifications at store of James Marra, Eveleth, Minn.

**Minn., Redwood Falls**—Bids received until March 29, 2 p. m., for frame church at Bechyn, Renville county, Rev. J. J. Tomek, pastor, Redwood Falls; W. F. Keefe, architect, 304 American Bank building, St. Paul, Minn.; plans at Builders' Exchange, St. Paul, and residence of pastor; see official advertisement in the Improvement Bulletin this week.

**Wis., Black Creek**—Contract awarded to Frank Schoenrock, New London, Wis., for church.

**Wis., Burnette**—Contract awarded to E. E. Marquart of Horicon, for new Lutheran church.

**Wis., Rome**—Preliminary plans are in progress for a church for the Lutheran congregation; Rev. H. Thedinga, pastor; 38x88, \$12,000; Jos. Dregerm, City National Bank building, architect, Oshkosh, Wis.

**Wis., Theinsville**—Plans are in progress and bids will be

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taken soon for Roman Catholic church; W. F. Hilgren, architect, Cedarburg, Wis.

**Wis., Seymour**—Bids received until March 20, 2 p. m., for construction of Immanuel Lutheran church; plans at office of secretary; check 5 per cent; F. W. Huth, secretary.

## ELEVATORS

**Minn., Kragnes**—Fire destroyed the Imperial elevator here, together with about 20,000 bushels of grain.

**Minn., Minneapolis**—Fruen Cereal Co., 25,000 bushel elevator on Electric Short Line, will be built by Hiekok & Son, contractors, Flour Exchange, Minneapolis.

**Mont., Coffee Creek**—The Montana Elevator Co.'s elevator burned, with total loss; R. E. Champlin, manager.

**Mont., Conrad**—Fire destroyed the Montana Central elevator here; loss about \$42,000; owned by the Cargill interests in Minneapolis.

**S. D., Morristown**—(Thunder Hawk)—Farmers of this vicinity plan to erect an elevator here this summer.

## BUSINESS BUILDINGS

**Iowa, Emmetsburg**—Plans prepared by R. R. Mayberry, architect, Cedar Rapids, Iowa, for remodeling of Emmetsburg National Bank building; 2-story, 26x63, cost \$6,000; plate and prism glass, wood fibre plaster, hot water heat, tile and maple floor, quarter-sawn white oak interior finish, decorating, electric lights, hollow tile, iron beams, marble metal ceiling, plumbing, terra cotta, vaults

**Iowa, Oelwein**—Plans being prepared by J. F. Leitha, architect, Waverly, Iowa, for a store and apartment building, for G. H. Phillips estate; brick, 3-story, 50x90; bids taken until April 10, by architect; steel beams and columns, tile fireproofing, common, pressed brick, steam heat, sheet metal skylights, composition roof, common plaster, sidewalk glass, plate, prism and wired glass, maple floors.

**Iowa, Sumner**—General contract let to Austin E. Smith, Waterloo, Iowa, for business building for Syndicate Co., address, Dr. Dunkelberg, Sumner, Iowa, 2-story, brick, 72x80, cost \$17,000; steel beams, cast columns, lime cut stone, common pressed, hollow brick, steam heat, electric lights, skylights, (sheet metal), ventilation, composition roof, common plaster, plate, prism and wired glass, oak and tile floors, yellow pine finish, freight elevator, 4x4; plans by J. G. Ralston, architect, Waterloo, Iowa.

**Minn., Madelia**—Plans prepared by Architect Albert Schipfel, Mankato, Minn., for 1-story office building, for Farmers' Insurance Co., Mankato, cost \$35,000; common brick pressed, composition roof; bids taken by architect owner will purchase vault doors.

**Mont., Butte**—Plans and specifications have been completed for new bank building of W. A. Clark & Brothers, work to begin about March 15; 2-story, solid granite exterior, fireproof, reinforced concrete and steel, mosaic tile floors, marble fixtures, marble stairs; cost \$50,000.

**Neb., Chappel**—Plans prepared by J. R. Smith, architect, Lincoln, Neb., for a 1-story brick bank building, for the First National Bank, 25x60, cost \$7,000; bids being taken by owner; ornamental iron, tile reinforced concrete fireproofing, lime cut stone, pressed brick, three vaults, steam heat, electric lights, sheet metal cornice, skylights, ceiling, composition roof, metal lath, corner bead, plate, ribbed glass, marble interior, oak floors, red oak finish.

**Neb., Lincoln**—The present Security Mutual Insurance Co. building will be remodeled into a modern 10-story, fireproof, building; cost about \$150,000; W. A. Lindly, C. J. Guenzel and F. D. Mason, building committee.

**Wis., Superior**—Contract let to J. F. Connors, local contractor, for erection of a 2-story brick building, by M. Berger, of Cloquet, Minn.; cost about \$9,000; plans by Architect Radcliffe.

### BIDS WANTED.

**Wis., Elkhorn**—J. R. Law, architect, Madison, Wis., is taking bids on material and equipment for new \$35,000 banking house, for First National Bank of Elkhorn; general contract awarded to Bankers' Construction Co., Chicago; stone and brick, fireproof, 2-story and basement, 42x75.

### CONTRACTS AWARDED.

**Wis., Elkhorn**—Contract awarded to Gray Art Water Supply Co., Milwaukee, at \$4,272, for artesian well; other bids were: S. B. Geiger, Chicago, \$5,414; A. B. Bell, Chicago, \$4,883; U. L. Thorne Co., Plattsville, \$5,054; N. M. Gray, engineer.



## MISCELLANEOUS



**Iowa, Cedar Rapids**—Construction of a creamery will start soon; cost \$25,000.

**Minn., Nashwauk**—Queen Mining Co. will build washing and concentrating plant on Pickerel Lake.

**Wis., Ashland**—Plans for a city dock for passenger boats are being made by the council.

**Wis., New London**—Contract for cement work, new public dock, let to Leo Froelich.

**Wis., Oshkosh**—Morgan Lumber Co., awarded the general contract for planning and erecting a new woodworking factory, cost \$25,000, to the Flour Brothers' Construction Co.; reinforced concrete and brick; 3-story, 80x194.

**Wis., Racine**—Board of health will recommend purchase of incinerator.

**Wis., Sheboygan**—Crystal Lake Gravel Co. will build timber trestle and loading apparatus, with motor driven belt conveyor; 150 feet.

## MILLS AND FACTORIES

**Iowa, Algona**—The Algona Ice Cream & Candy Factory will erect modern building, brick and cement, fireproof; cost about \$15,000; Jos. Taylor, president; Chas. H. Taylor, secretary.

**Iowa, Clinton**—A new factory will be established here; Commercial club interested.

**Iowa, Council Bluffs**—Ralph O. Crocker, representing the Crocker Chemical Co., will erect a modern plant here.

**Iowa, Decorah**—M. C. Casper of Waverly will establish factory for manufacture of cement silo staves.

**Iowa, Ft. Madison**—The Fort Madison canning factory will be rebuilt, modern fireproof, cost \$10,000; concrete and steel, 48x110.

**Iowa, Leon**—The Aaron Poultry & Egg Co. will erect modern poultry plant soon.

**Iowa, Shenandoah**—Shenandoah Artificial Ice, Heat, Power & Light Co. will enlarge plant; cost \$15,000, soon.

**Mich., Bessmer**—Work has started on the co-operative creamery, concrete foundation in.

**Mich., Greenville**—Fire destroyed plant of the Ranney Refrigerator Co.; loss \$150,000.

**Minn., Duluth**—With greater part of issue of \$3,000 in stock subscribed a co-operative creamery is practically assured.

**Minn., Duluth**—A modern reinforced concrete factory will be erected by John Wahl Candy Co. on Michigan st.; 3-story and basement, J. J. Wagenstein, architect; plans out this week for figures.

**Minn., Faribault**—The Chase Packing Co. of city will erect new buildings to amount of \$100,000, has reorganized with capital of \$500,000; A. G. Chase, city; J. J. Craig and C. J. Chase, of Minneapolis, incorporators.

**Minn., Fergus Falls**—Dennison Tile Works, incorporated, capital \$50,000; A. H. Dennison, president, A. R. Kitts, vice president, W. L. Potter, secretary-treasurer, will enlarge present plant.

**Minn., Holdingford**—Geo. Hedin and Herman Sundstrom will erect a feed mill, near creamery.

**Wis., Milwaukee**—A client of Architect W. F. Neuman will build printing plant; cost \$10,000; 2-story; 36x110; brick.

**Wis., New Richmond**—Preliminary steps have been taken by the representative officials of the American Society of Equity of St. Croix, Dunn, Polk and Barron counties, to organize an Inter-county co-operative packing company, capital \$250,000, to erect a packing plant; W. J. Mathews of Colfax; Fred E. Lentz, Prairie Farm and others, incorporators.

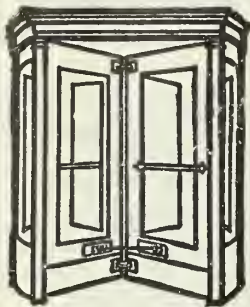
**Wis., Siren**—Two pickling factories will be established here; one by the Gedney people, and one by the Blaza people.

**Wis., St. Joseph**—A new creamery company organized here will erect modern factory, 40x28, concrete; Nick Krebsbach, manager; cement contract awarded to Robert Keach Construction Co., St. Cloud, Wis.; carpenter work by Brandt Bros. of St. Anna; painting, Michael Thillman, and artesian well by Hubert Fasbender of Marytown, make of machinery not decided yet.

**Wis., Wausau**—Gardner & Lindberg, architects and engineers, 140 S. Dearborn st., Chicago, have been engaged to prepare plans for proposed \$1,000,000 packing, cold storage and elevator plant, of the Farmers' Co-operative Packing Co.; reinforced concrete and brick, with power plant; Dr. D. Sauerhering, president.



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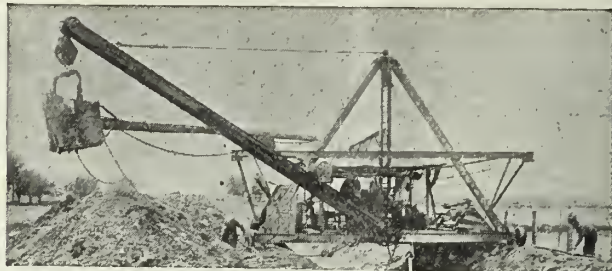
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# STREET AND ROAD WORK

(Culvert news in this department.)

**Wis., Manitowoc**—City clerk instructed to advertise for bids for improving of Clark st. between 13th and 14th, known as Truman hill; will include lowering of walk on north side of street, cement curb and gutters, and proper drainage; address city clerk.

**Wis., Sheboygan**—Plans being prepared by C. U. Boley, city engineer, for 10 blocks brick and concrete paving in S. 14th st. and 1 mile concrete paving in N. 4th st.; J. M. Steimle, city clerk.

## BIDS WANTED.

**Iowa, Burlington**—Bids received by H. G. Vollmer, city clerk, until 9 a. m., March 18, to grade, curb with artificial stone, and pave with cement concrete 30 feet wide on Summer st., and to grade and pave with cement concrete, without curb, 18 feet wide, on another part of the same st.; check for \$250.

**Iowa, Burlington**—Bids received by Robert Kroppach, city clerk, until 9 a. m., March 29, for sand, nails, lumber, brick, cement, sewer pipe, etc., for year ending March 31, 1916.

**Iowa, Cedar Rapids**—Reported bids are wanted by city clerk until March 19, for 18 paving contracts, including asphaltic concrete, vertical fibre vitrified brick, creosoted wood blocks, etc.; also for curbing and guttering a number of streets.

**Iowa, Dubuque**—City recorder instructed to advertise for bids on a street sweeper, automobile police patrol, 4 passenger automobiles for the police, a 15-ton road roller; address city clerk.

**Iowa, Dubuque**—Bids received by B. H. Burrell, senior U. S. engineer, until March 31, for the Hawkeye highway.

**Iowa, Iowa City**—Bids received by W. J. Freeman, county clerk, until 10 a. m., March 22, for 5,000 pounds of Portland cement, at stipulated points in the county.

**Minn., Chaska**—Bids received by J. B. Connolly, auditor of Carver county, until April 13, for corrugated metal culverts.

**Minn., Duluth**—Bids received by R. Murchison, commissioner, until 10 a. m., March 22, for one or more horse-drawn pressure oil spraying machines, 600 gallons capacity, steel tank, etc.; check for 10 per cent.

**Minn., Duluth**—Bids for paving Weeks av. from 4th to Belknap st., were as follows: sheet asphalt, F. P. Coughlin, \$33,865; Fielding & Shepley, \$34,181; asphaltic concrete, Fielding & Shepley, \$32,643; brick, Magnus Peterson, \$37,181; reinforced concrete, Magnus Peterson, \$25,083; Russell Construction Co., \$28,197; S. A. Riches, \$27,482; Baum & Jacobs, \$27,845; Edward Johnson, \$26,950; John Diffor, \$26,888.

**Minn., Glenwood**—Bids received by Ole Irgens, auditor of Pope county, until 2 p. m., March 17, for road construction on county jobs Nos. 1, 2, 3, 4, 5, and 6, comprising excavation, dragging, culverts, turnpiking, clearing and grubbing, and amounting in all to \$20,618; check for 5 per cent; plans and specifications at county auditor's office, or at office of state highway commissioner, St. Paul.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, purchasing agent, until 3 p. m., March 16, for 20,000 square yards vitrified paving blocks, street measurement; check for \$300.

**Minn., Mora**—Bids received by A. V. Sander, county auditor, until 1 p. m., March 17, for clearing and grubbing on state road No. 3, job No. 9, a distance of nearly 1,000 feet, right-of-way to be cleared of stumps and stone 48 feet wide; check for 5 per cent.

**Minn., Ortonville**—Bids received by A. V. Randall, clerk of Big Stone county, until 10 a. m., March 23, for 5,500 lineal feet turnpiking on one job, 18,095 feet turnpiking and 13,655 cubic yards grading on another, 9,890 lineal feet turnpiking and 5,124 cubic yards grading, on another, 12,030 lineal feet turnpiking, 1,995 cubic yards grading and 30 cubic yards concrete head walls for culvert on another, and 6,970 lineal feet turnpiking and 9,380 cubic yards grading on another; plans and specifications at court house in Ortonville and at office of state highway commission, St. Paul; check for 5 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 22, for 800 tons refined asphalt ready fluxed, 100 tons refined lake asphalt, 60 tons residum, 17 cars asphaltum road oil; check 10 per cent; also, at same time, for 30,000 pounds roofing pitch, 110,000 pounds paving cement, and 50,000 pounds No. 1 tarred felt; also, at same time, for 12,000 barrels cement; also, at same time, for three 12,000 gallons fluxing oil tanks, for the asphalt

plant; checks in each case for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 22, for grading and improvement of Ivy st. from Earl to Orange st.; also, at same time, for 1,000 tons limestone dust, 1,000 cubic yards 3-8-inch binder stone, 950 cubic yards crushed limestone, 47 cars crushed granite, and 13,000 cubic yards 1½-inch crushed rock; check for 10 per cent in each case.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 22, for a concrete platform with supports and steps for underpinning women's bath house on Harriet Island, and one concrete platform with supports and steps running 120 feet north of the men's bathing house and 194 feet to the bridge; check 10 per cent.

**Minn., Minneapolis**—Bids received by Al. P. Erickson, county auditor, until 11 a. m., April 5, with one or more tank cars of road oil, f. o. b. any station in Hennepin county; check for \$25.

**Mont., Bozeman**—Bids received by A. M. Brandenburg, city clerk, until 5 p. m., March 18, for approximately 1,500 lineal feet, 5x11-inch curb, 10 corner returns or segments, 20,000 square feet of 5-foot sidewalk, 1,000 square feet cross walk, 100 square feet driveways, etc., etc.

**Neb., Alliance**—Bids received by Geo. F. Snyder, city clerk, until 8 p. m., March 30, for curbing, guttering, alley curbing, estimated to amount to \$5,700.

**Neb., Alliance**—Bids will be received by G. F. Snyder, city clerk, until 8 p. m., March 30, for approximately 14,625 foot concrete curb and gutter.

**N. D., Fessenden**—Bids received by L. W. Wigley, city auditor, until 8 p. m., April 5, for construction of sidewalks in the city during ensuing year.

**N. D., Mohall**—Bids received by Peter Carlson, auditor of Renville county, until 2 p. m., April 6, for two elevating road graders with disc plow; check for 5 per cent; also, at same time, for constructing a grade across a certain coulee, and other work; check for 5 per cent.

**Ore., Eugene**—Engineer's plans adopted by council for paving High st.; bids to be asked in one contract for filling street and in another for paving; address city clerk.

**S. D., Vermillion**—Bids received by J. T. Olson, auditor of Clay county, until 10 a. m., March 24, for one or two heavy road graders.

**Wis., Antigo**—Bids received by G. O. Palmiter, city clerk, until 10 a. m., March 17, for approximately 900 barrels road oil.

**Wis., Fond du Lac**—Bids received by J. S. McCullough, city clerk, until 3 p. m., March 17, for improving Johnson st., Western av., Superior st. and Cottage av., by grading and paving with reinforced concrete under a 5-year guarantee.

**Wis., Oshkosh**—Bids received by Jas. Binning, county highway commissioner, until 1 p. m., March 19, for the concrete road to Sunnyview sanitarium; 2,200 feet long, 9 feet wide; check for \$200.

**Wis., Oshkosh**—Bids received by R. A. Hollister, chairman, board public works, until 2 p. m. March 22, for one scarifier and one road grader.

**Wis., Prairie du Chien**—Bids received by W. H. Turbitt, city clerk, until 8 p. m., April 14, for 9,106 square yards permanent pavement on concrete foundation, 3,500 feet curb and gutter, and other accessories; bids to be taken on reinforced concrete, vitrified paving brick, creosote block, macadam, sandstone block and tarvia; bids to be accompanied by contract and bond on form prescribed by the city.

**Wis., Superior**—Bids received by W. R. Russell, chairman, board public works, until 1 p. m., March 17, for paving Belknap st., concrete foundation and surface, or bituminous macadam, or concrete.

**Wis., Appleton**—Bids received by E. L. Williams, city clerk, until 9 a. m., March 22, for curbing in sundry streets; check for \$100.

**Wis., Richland Center**—Bids received by G. H. Mainwaring, county highway commissioner, until March 26, for approximately 18,570 square yards pavement, 12,000 cubic yards grading, 4,400 lineal feet combination curb and gutter, and 1,400 lineal feet concrete water works; water-bound macadam, tar macadam, asphalt macadam, or reinforced concrete.

**Wis., Sparta**—Bids received by E. G. Kowitz, chairman, until 2 p. m., March 24, for 1,390 cubic yards grading, 4,133 square yards brick paving, 2,982 lineal feet cement curb; 196 lineal feet headers.

## CONTRACTS AWARDED.

**Iowa, Cedar Rapids**—Contract to Ford Paving Co., city, for paving down town streets with asphalt at \$50,000.

**Iowa, Davenport**—Contract to Davenport Stone & Marble Co., city, for sidewalks at 10c per square foot; county board





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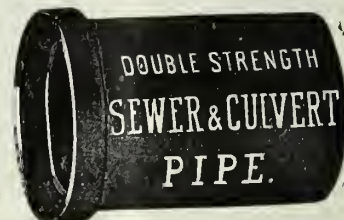


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**Iowa, Fort Dodge**—Contract to Ft. Dodge Culvert Co., city, for corrugated culverts.

**Iowa, Tipton**—Contract to Thos. Carey & Sons, Clinton, Iowa, for 40,000 square yards street paving at \$80,500.

**Iowa, West Liberty**—Contract to Christ Petersen, Kenosha, Wis., for 40,000 square yards of surfacing with Purington brick from the Galesburg, Ill., plant, with asphaltic filler on a concrete base, at \$1.81 per square yard, and to Zitterell & Sullivan of Webster City, Iowa, for curbing at 37c per foot, for straight curb and 47c for combined curb and gutter; there were fourteen other bidders, the next lowest being Michael Ford of Cedar Rapids, at \$1.94.

**Minn., Fairmont**—Contract to J. D. Adams & Co., for one No. 6, Square Deal grader with scarifier, at \$390; Russell Grader Co., one 5-foot scraper at \$17.60 and five No. 2, wheel scrapers at \$173; the Good Roads Machinery Co., Fort Wayne, Ind., ten 6-way adjustable drags, \$150; Gallion Iron Works Co., Gallion, O., four Haslap No. 2, drag scrapers at \$18, and four Gallion Vulcan road plows at \$60.

**Minn., Faribault**—Contract to J. M. Thonet for boulevarding 2d st. at \$2,915.

**Minn., St. Peter**—Contract to Kettle River Co., for 400 sq. yards sandstone paving blocks at \$1.75½ per square yard.

**Minn., Duluth**—Contract to Jacob E. Kaukola for 3 miles of the town line road at \$3,800, and to C. A. Hughes for 2 miles of the Leander road at \$1,760.

**S. D., Sioux Falls**—Contract for cement sidewalks has been made at 10.5 per square foot, other bids being 13.5 and 13.9 per square foot.

**S. D., Sioux Falls**—Contract to Irving Fanebust for concrete sidewalk on 25th st. at 10½c per square feet, grading at 25c per square yard; other bidders were: Odney Bros. & Stadum at 13.9c per square foot sidewalk and 40c per cubic yard for grading; Myrmo Bros., sidewalk at 13.5c and 45c for grading.

**Wis., Appleton**—Contract to Lillge Brothers, city, for curb and gutters on all streets to be paved this year.

**Wis., Appleton**—Contract to White Construction Co., 1006 Railway Exchange building, Milwaukee, for all asphalt paving during 1915.

**Wis., De Pere**—Contract to Barkhausen Coal Co., Green Bay, Wis., for 10,000 barrels cement for the DePere-Green Bay concrete project.

**Wis., Jefferson**—Contract to Larson Construction Co. for street paving contracts aggregating \$25,000.

**Wis., Superior**—Contract to Magnus Peterson for paving on 13th st. at \$4,340; the bid of John Diffor was but \$9 higher, and other bidders were: Baum & Jacobson at \$4,510; S. A. Riches at \$4,462; Russell Construction Co., \$4,716, and Ed. Johnson at \$4,504.

**Wis., Watertown**—Contract to Lehman Brothers, city, for reinforced concrete pavement at \$8,704.

250 feet 6-inch, for branch 1; Chas. A. Root, county auditor.

**Iowa, Hampton**—Estimated cost of proposed Franklin county drain for 12,000 acres, is \$175,000; 7 miles, 2 open, 5 tiled.

**Iowa, Indianola**—A. S. Van Sandt, engineer, Clarinda, Iowa, is preparing plans for county ditch 2, 11¼ miles open ditch; 1,115,000 cubic yards excavation; bids may be called about May 1.

**Iowa, Storm Lake**—A. H. Cunningham, engineer, has filed report on the establishment of drainage districts petitioned by several petitioners; meetings will be held on April 7, to consider reports on same; W. W. Bennett, county auditor.

**Minn., Elk River**—Prospects are favorable for establishing county ditches 16 and 17.

**Minn., Fairmont**—First hearing March 22 on proposed judicial ditch 53. E. R. Flygare, clerk of court; extends in 20 sections, township 102 N., Range. 29 W., etc.

**Minn., Fairmont**—First hearing judicial 53, March 22.

**Minn., Jackson**—Final hearing March 15 on judicial 37, A. M. Schroeder, clerk of court; O. Thoresen, attorney for petitioners, Jackson.

**Minn., Minneapolis**—Hearing March 15, on petition for public ditch, Medina; Al. P. Erickson, county auditor.

**Minn., Owatonna**—Judge Childress has held hearing on ditch construction to cost \$30,000, in south part of Steele county.

#### BIDS WANTED.

**Minn., Bemidji**—Bids received until 10 a. m., March 30, for construction, judicial ditch 20, bridge approach, estimated cost \$826; J. L. George, county auditor; check 10 per cent.

**Minn., Buffalo**—Bids taken till 2 p. m., March 20, on ditch 22, Wright county; estimated cost, \$2,049; check for 10 per cent; John A. Berg, auditor.

**Minn., Crookston**—Bids received till 10 a. m., March 30, for digging and constructing ditch 92; Polk county; estimated cost, \$6,554; check for 10 per cent; H. J. Welte, auditor.

**Minn., Elbow Lake**—Contract awarded to Carl Christianson, Litchfield, Minn., for digging and construction, ditch 21, at \$21,150.

**Minn., Wadena**—Bids received 2 p. m., April 6, for county ditch 9; estimated, \$3,846; check 10 per cent; Eugene Boss, auditor, Wadena county.

## SEWER WORK

**Iowa, Beacon**—Town is planning to construct extension of water mains.

**Iowa, Decorah**—Proposed to construct sewer system, but nothing definite yet done; A. Coffeen, city engineer; F. M. Hughes, city clerk.

**Iowa, Denison**—City council at a meeting authorized the city to get petition started to call for a special election for purpose of voting on issuance of bonds for water works system.

**Iowa, Sanborn**—Citizens are considering putting sewer system; address city clerk.

**Iowa, Sioux City**—Total cost of two proposed sewers in Morningside will be \$26,000; T. S. Johnson, city engineer.

**Iowa, What Cheer**—Bruce & Standeven, engineers, Omaha, Neb., will prepare plans and specifications for sewer system; address city clerk.

**Kans., Manhattan**—City will vote at election April 6, on \$75,000 bonds for installation of a water softening and purification plant, and other improvements to water plant.

**Kans., Sterling**—Reported to be considering a sewer system in the city council; address city clerk.

**Minn., Rochester**—State board of control has in view construction of a new sewer system at the state hospital, 12-inch main being planned; Pillsbury Engineering Co., Minneapolis.

**Minn., Springfield**—A sanitary sewer has been ordered in Washington st.; Ed. J. Fernholz, village recorder.

**Neb., Hastings**—Definite action by the council soon on installing septic tank; address city clerk.

**Neb., Kearney**—Ordinance being published for sewer lateral in 2d ward; T. N. Hartzell, city clerk.

**Wash., Seattle**—Board public works approved plans for construction of sewers in Lakeside av. at cost of \$25,500; to include 13,010 feet of 8, 10, 12, and 15-inch pipe, 81 brick manholes, 3 flush tanks, and 36 catch basins.

**Wis., Green Bay**—Hearing May 30 on sewerage for the 14th district; L. Findeisen, chairman, commission on sewers.

**Wis., Mayville**—Council authorized \$15,000 bond issue for a sewer system; address city clerk.

**Wis., Superior**—Contract to E. F. Moe for a sewer at the

## DRAINAGE AND IRRIGATION

(Culvert news in this department.)

**Iowa, Buffalo Center**—Engineer O. N. Gjellefaid has filed his reports, together with plats and profiles of survey on the establishment of drainage district No 48, Winnebago county, as petitioned for by C. I. Anderson and others, and a meeting will be held on March 26, to consider reports; C. K. Nelson, county auditor of Winnebago county, Iowa.

**Iowa, Carroll**—Bids received until 2 p. m., March 18, for furnishing tile and for excavating and refilling ditch; check for 10 per cent; Geo. A. Poppe, auditor.

**Iowa, Carroll**—Engineers have filed reports on establishing drain 29 and drain 68, and meetings will be held on March 18, to consider reports; Geo. A. Poppe, county auditor.

**Iowa, Des Moines**—Representative Reese of Wright county, has received copies of papers in which notice is given that March 15, there will be a hearing on a plan for a large drainage district, which it is said will include all or a part of Wall Lake.

**Iowa, Estherville**—Bids in March 10, 12 m., on ditch 90; 12 m., March 11, on repairing 26; material for 90 includes, 2,400 feet 18-inch tile; 750 feet 15-inch; 700 feet 12-inch; 300 feet 8-inch; 630 feet 6-inch; 2,000 feet 12-inch; 200 feet 8-inch;



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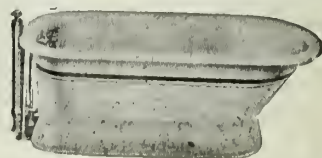
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south end, at \$579; other bidders were Andrew Johnson at \$799; Forsstrom & Matson Co., at \$850; Oscar Anderson at \$784; M. Naeboson at \$682; Emil Lund at \$1,187 and Ed. Johnson at \$1,176.

**Wis., Wausau**—B. C. Gowen, city engineer, has submitted plans and estimate of cost for a sewer in 6th st., estimated cost \$5,645; address city clerk.

#### BIDS WANTED.

**Iowa, Burlington**—Bids received by Robert Kroppach, city clerk, until 9 a. m., March 29, for furnishing sewer pipe.

**Iowa, Burlington**—Bids received by H. G. Vollmer, city engineer, until a. m., March 18, for a combined storm water and sanitary sewer known as the Gnahn st. sewer and branches; sections Nos. 1 and 2 with vitrified pipe with mortar joints; section No. 1 of segment block with mortar joints and section No. 2 of vitrified pipe with mortar joints; No. 3 of reinforced cement concrete pipe with mortar joints and section No. 2 of cement concrete pipe with mortar joints; section No. 4 of segment block with mortar joints and No. 2 of cement concrete pipe with mortar joints; work to begin before April 1; check for \$500.

**Iowa, Davenport**—Bids received by J. W. Crowley, commissioner public works, until 2 p. m., March 16, for a sewer on 17th st., etc.; check for \$300.

**Iowa, Keosauqua**—Bids received by M. H. DeHart, auditor of Van Buren county, until noon, March 15, for corrugated and boiler pipe for the season of 1915; check for 5 per cent.

**Kan., Salina**—Bids probably received in May for sewer in Ash st., about 2,500 feet 36-inch pipe, an average of 22 feet deep; P. G. Wakenhut, city engineer.

**Minn., St. Paul**—Bids received by Aug Hohenstein, purchasing agent, until 10 a. m., March 22, for sewers in Glenham av., Maplewood av., and Medford av.; also, at same time, for 100 manhole covers, 50 manhole frames and covers, 40 round catch basin frames and covers, 40 square catch basin frames and covers, 50 square catch basin grates, 30 square catch basin lids, and 20 hooks; check in each case for 10 per cent.

**Minn., St. Paul**—Bidders for the Front-McKenty sewer system, estimated to cost \$61,114, were Thornton Bros., at \$56,887 and E. T. Webster at \$53,434.

**Mont., Malta**—Bids received by Allin G. Arnot, town clerk, until 2 p. m., March 15, for 1,000 feet of 8-inch lateral sanitary sewer, with manholes, flush tanks, and other accessories; check for 10 per cent.

**Neb., Nelson**—Bids received until March 20, noon, for furnishing f. o. b., Nelson, of 8-inch wooden pipe with necessary fittings, couplings, valves and fittings, for water conduit to city, approximately 7½-inch long; also for excavating the trench and laying pipe, covering same, etc.; check \$500; plans with clerk.

**Wis., Fond du Lac**—Bids received by J. F. Hohensee, city clerk, until 3 p. m., March 16, for sanitary sewers in Morris st., Fulton st., Western av., S. Main st., Russell st., W. 12th, Cedar and Hickory sts., and a storm sewer in Johnson st.; check for 5 per cent.

**Wis., Sheboygan Falls**—Bids will soon be advertised for 1,000 feet 24 and 30-inch vitrified pipe storm sewer and 2,000 feet 8 and 10-inch vitrified pipe sanitary sewer; Herman Boldt, village clerk.

**Wis., West Bend**—Bids will soon be taken on tile storm and sanitary sewers in various streets; C. Heipp, city clerk.

#### CONTRACTS AWARDED.

**Iowa, Ames**—Contract to the Moore-Sieg Co. of Waterloo, for nearly two miles of sanitary sewer at \$8,879.

**Minn., Floodwood**—Contract awarded to Emery Pollock of Aitkin, for boring deep well, at \$3.25 per foot for 6-inch casing.

**Mont., Bozeman**—Contract to S. Birch & Sons for sewer in 7th av.

**Wis., Appleton**—Contract to Dettmann & Co. for manholes, catch basins, covers, connections, for 1915 sewer work.

### WATER WORKS

**Iowa, Buffalo Center**—At a special election it was voted to erect a water works plant and to bond the town for \$2,000.

**Iowa, Elk Horn**—Petition is being circulated for water works system.

**Iowa, Sioux City**—City council has authorized city clerk to advertise for bids for a motor driven pump to clean the reservoirs.

**Mont., Missoula**—An election will probably be held soon to vote on bonds for a local water plant and distributing system.

**Neb., Wilsonville**—Election will be held April 6, to vote on installation of a water works system here; Chas. F. Studevant, consulting engineer of Holdredge.

**S. D., Humboldt**—Village has voted to issue \$10,000 bonds for a water works system.

**Wis., Wittenberg**—Village board of trustees has voted to engage W. G. Kirchoffer, C. E. Madison, Wis., to prepare plans for water works system, for fire protection only.

#### BIDS WANTED.

**Iowa, Morning Sun**—Bids received until April 5, 7 p. m., for purchase of \$15,000 water works bonds; W. B. Garvin, town clerk.

**Kans., Fredonia**—Bids received until March 22, for filtration system for 1¼ miles, 12-inch flow line and new pumping machinery; city has voted \$40,000 bonds; C. B. DeTar, superintendent, water works.

**Kans., Holton**—Bids were in March 12, on water works system, cost about \$50,000; Worley & Black, engineers, Kansas City, Mo.

**Minn., Austin**—Bids received until 9 a. m., March 22, for a 1-story and basement office building, including separate bids for plumbing, heating, by board of water, electric, gas and power committee, plans by Architect F. W. Kinney, Plymouth building, Minneapolis, at office of architect and board; check 5 per cent; J. D. Sheedy, president; official advertisement in the Improvement Bulletin this week.

**Minn., Minneapolis**—Bids received until March 18, 3 p. m., for one or two centrifugal pumps with motors with auxiliary equipments to operate automatically, for the water works department; plans with City Purchasing Agent Kossuth E. Alexander; check \$200.

**Minn., Winona**—Bids received until 4 p. m., April 15, for materials, tools and appliances, and drilling and construction of four artesian wells, each approximately 490 feet deep, located in the park grounds; plans at office of water works, Winona, or office of engineers, Chicago, Alvord & Burdick, Hartford building, Durr D. Blair, president, water board.

**Mont., Harlowtown**—City will let contract about April 1, for extension of water works; 4, 6, and 8-inch steel pipes; 5½-foot cover, six 60-inch wells, 200 feet deep; one 100,000-gallon steel tank, one 601-foot tower; 20x20x20-foot pump house and pit, etc.; cost about \$15,000; C. P. Wells, city engineer.

**Mont., Lewistown**—Bids received until 8 a. m., March 29, for 100 tons of Standard cast iron pipe and specials for the water works system; plans with city engineer of city; check 10 per cent; H. L. Fitton, city clerk; bids also taken at same time and place for 8 Eddy hydrants and 21 valves.

**N. D., Fargo**—Resolution passed for necessity of a water main in water main district No. 6; A. R. Watkins, city auditor; also bids will be received until 9:30 a. m., March 24, for 6-inch water main on 14th st. S., from 1st to 2d avs.

**N. D., Fargo**—City auditor has been authorized to advertise for bids on several pieces of water main extension; plans prepared by city engineer.

**Wis., Reedsburg**—Bids will be taken by Wm. H. Dierken, city clerk, until March 22, 7:30 p. m., for one minimum carload of 4-inch class C. cast iron water pipe, 23 pounds per lineal foot, delivered at Reedsburg.

#### CONTRACTS AWARDED.

**Iowa, Clar Lake**—Contract awarded to National Co., of West Bend, Ind., for construction of a mechanical high pressure filter plant for the city water system; also changing method of pumping from steam to electricity; \$12,000 bonds to be issued.

**Iowa, Council Bluffs**—Contract for new laboratory and machine shops for the water works department, awarded to C. C. Norgaard, at \$8,641; brick, 2-story, 48x75, spring work.

**Iowa, Sioux City**—Contract awarded to the Egley-Payette Construction Co. for erection of a 4-story, reinforced concrete building, for W. S. Gilman, at 600-606 Pierce st.; cost \$90,000, fireproof.

**Minn., Duluth**—Contract awarded to Norquist & Berg, for construction of water and gas mains in Dodge st. and Lancaster av.

**Minn., Faribault**—Contract awarded to the American Cast Iron Pipe Co. for supplying water works with pipe.

**Minn., Hibbing**—Contract awarded to M. E. Layne of Layne & Bowler Co., at \$400,000, for complete water system here; Burns & McDonnell, consulting engineers.

**Minn., Meadowlands**—Contract awarded to James H. Peterson for erection of the State Bank, at \$8,000; Holstead & Sullivan, architects.

**Minn., New Ulm**—Contract awarded to J. G. Robertson, St. Paul, Minn., at \$4,755, for deep well pump head, etc.; other bids: Keystone Driller, St. Paul, \$4,800; Union Machine Co., St. Paul, \$5,324; Globe Pump Co., St. Paul, \$5,244; R. B. Whitacre, St. Paul, \$6,250; F. D. Minimum, city engineer.

**Mont., Kalispell**—Contracts awarded as follows on pumping equipment for water works system: combined motor and pumps from Henry R. Worthington Co., at \$4,619; includes 2 h. p. motors and pumps, contract let to Sam Odegard, for



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erection of building, and digging well, at \$3,240; digging trench and back filling, let to L. L. Davis, at \$390; Kalispell Mercantile Co., contract for 7½-tons of reinforcing steel at \$559; cement to the Kalispell Mercantile Co., at \$2.47 per barrel.

**Wis., Whitewater**—Contract for constructing reinforced cover for the municipal water works reservoir, awarded to White-water Bridge Co., at \$2,243.

## BRIDGES

(Culvert news in this department.)

**Mont., Livingston**—Park county will erect a \$10,000 bridge connecting the city and fair grounds; C. T. Heaton in charge of work.

**Wis., Green Bay**—At the election April 6, bonds in sum of \$5,000 for bridge over Pleasant st., will be voted; also bonds of \$55,000 for erecting bridge over East river at Main st.

### BIDS WANTED.

**Iowa, Keosauqua**—Bids received until March 15, 12 m., for bridge lumber for season of 1915, in Van Buren county; M. H. DeHart, county auditor; check 5 per cent; plans at office of auditor and county commissioner.

**Iowa, Sibley**—Bids received until April 7, 1 p. m., for erection of two steel bridges and 36-cement bridges and culverts, also material for same; plans with County Auditor D. W. Clayton, Osceola county, Iowa; see official advertisement in the Improvement Bulletin this week.

**Kans., Larned**—Bids received until 12 m., March 15, for one 300-foot 6-arch, reinforced concrete bridge or one 6 foot span, flat top reinforced concrete bridge, across Arkansas river; check \$100; plans with County Clerk W. C. Ware, Pawnee county.

**Kans., Winfield**—Bids received until March 15, by H. Bryan, county clerk, for a 40-foot span reinforced concrete bridge, 16-foot roadway, and concrete abutments, across Timber creek, at A. L. Crow ford; also 40-foot span reinforced concrete bridge, 16-foot roadway, (stone arch), and concrete abutments across Timber creek at Snodgrass ford; J. M. Bradley, county engineer.

**Minn., Duluth**—County Auditor Halden was directed to advertise for bids on two bridges (wooden) on the Arcola road; bids to be opened at the April meeting of the county commissioners.

**Minn., Houston**—Resolved that the county commissioners be authorized to advertise for construction of 8 bridges in Houston county, E. N. Newhouse, county auditor.

**Minn., Carver**—Bids received until April 13, 1 p. m., for culverts for state roads; address county auditor.

**Minn., International Falls**—Bids received until 10 a. m., March 23, for corrugated iron or steel culverts for judicial ditches No. 18 and 20; check 10 per cent; 613 pieces, 15x38, one piece 30x38; one piece 24x38; also for 90 pieces 15x38, to be delivered, at once, at Big Falls, Minn.; L. H. Slocum, county auditor; E. W. Kibbey, engineer.

**Minn., Minneapolis**—Bids will be received until April 5, 11 a. m., for removing old bridge No. 61, and erecting new bridge complete, over Elm Creek, on road No. 8, town of Maple Grove; check 5 per cent; plans with Count Surveyor Al. P. Erickson, county auditor, Hennepin county.

**Minn., Moorhead**—Plans for new steel and concrete bridge over Buffalo river on state road between Dilworth & Glyn-don were received from state highway commission by C. H. Mann, district highway engineer; cost about \$10,000; contract to be let early.

**Minn., St. Cloud**—Bids received until March 16, 1 p. m., for culverts in Stearns county, for year ending Dec. 31, 1915; sizes as follows: 12-inch 16 ga.; 15-inch 16 ga.; 18-inch 16 ga.; 24-inch 14 ga.; 30-inch 14 ga.; 36-inch 12 ga.; 42-inch 12 ga.; 48-inch 12 ga.; 60-inch 10 ga.; iron and open hearth steel; check \$100; Nicholas Thomey, county auditor.

**Minn., Windom**—Bids received until 1 p. m., March 19, for building state bridge No 1682, on state road No. 2, town of Delton, Cottonwood county, superstructure 20-foot span, 18-foot roadway, concrete foundation; plans with County Auditor S. A. Brown, Windom; check 5 per cent.

**Mont., Bozeman**—Bids received until March 20, 2 p. m., for corrugated galvanized iron culverts, f. o. b. Bozeman, Gallatin county; plans at office of Fred M. Brown, county surveyor; check 10 per cent; E. H. Schumacher, clerk and recorder.

**Neb., Red Cloud**—Bids received until March 23, for steel bridge and culvert construction for 1915; also furnishing steel I-beams and reinforcing rods; J. J. Garber, county clerk.

**N. D., Cavalier**—Bids received until April 6, 2:30 p. m., for 7 bridges in Pembina county, by County Auditor W. W. Felson; plans with county auditor; check \$500.

**Wis., Green Bay**—Bids received until 10 a. m., March 18, for 30,000 feet of Rock Elm planking, according to specifications: sound Rock Elm planking, not over 20 per cent, 3-inch by 6-inch, balance to be 3-inch by 7-inch and wider, 5,000 feet to be 18-feet long and 25,000 feet to be 16-feet long; delivered f. o. b. Green Bay; F. Biemeret, chairman, board.

**Wis., Racine**—Bids will be opened on March 25, on concrete and steel bridge abutments, etc., date changed from March 15, James Mutter, highway commissioner, Racine.

### CONTRACTS AWARDED.

**Iowa, Cresco**—Contract awarded to Chambers & Dobson for construction of eight bridges at \$14,225; E. A. Hoopman, county auditor, Howard county.

**Iowa, Keokuk**—Contract awarded to A. D. Storms of Ft. Madison for furnishing lumber for the bridge over Skunk river.

**Iowa, Knoxville**—Contract awarded to L. B. Child, of Nevada, Iowa, for five truss-span bridges and 21 culverts, at \$24,200, and \$7,758, four beam-span and 28 culverts, Thor Construction Co., Cedar Falls, Iowa, \$5,240; and \$10,760; 20 culverts to Western Bridge & Construction Co. Omaha, Neb., \$8,800; W. O. Price, county engineer.

**Iowa, St. Ansgar**—Contract awarded to the Klauer Manufacturing Co., of Dubuque, Iowa, for corrugated culverts; 12-inch 41c per foot; 15-inch 62c per foot; 18-inch 71c per foot; 24-inch 97c per foot; 30-inch \$1.58 per foot; 36-inch \$1.96 per foot; contract awarded to Clinton Bridge & Iron Co., Clinton, Iowa, for reinforcing steel rods and I-beams and channels.

**Minn., St. Paul**—Contract awarded to the Illinois Steel Bridge Co., Zelch & Walton N. W. agents, 551 Gilfillan block, St. Paul for state bridge No 1604, at \$3,835.

**Minn., Winona**—Contract awarded to Peter Schwab of Winona for Winona-Lake Park bridge, at \$4,100.

**Minn., Winona**—Contract awarded to O'Hagen & Lake Construction Co. of Chicago, Ill., for high wagon bridge approach, at \$95,900.

**Mont., Livingston**—Contract awarded to Chas. T. Sackett, at \$3,000, for new bridge over H st.

**Neb., Nelson**—Contract awarded to Ward & Weighton, Sioux City, Iowa, for state aid bridge over Republican river, at \$13,000; other bids were: Lincoln Construction Co., at Lincoln, \$16,890; N. M. Stark & Co., Des Moines, Iowa, \$19,130; Standard Bridge Co., Omaha, \$19,800; Leonard Wilson Co., Lincoln, \$17,980; Elkhorn Construction Co., Fremont, \$21,340; Omaha Structural Steel Co., Omaha, \$21,300; Midland Bridge Co., Kansas City, \$21,517; all bids on county bridge work rejected; D. D. Price, state engineer, Lincoln.

**N. D., Belfield**—Contract awarded to the Minneapolis Bridge Co. for steel frames for bridges; contract awarded to the Wheeling Corrugated Culvert Co. for metal culverts.

**N. D., Grand Forks**—Contract awarded to Jardine & Anderson, Fargo, N. D., for steel and concrete bridges in county for 1915; bids as per foot for 33 items; other bids were: Fargo Bridge & Iron Co., Fargo; Iowa Bridge Co., Minneapolis.

**Wis., Neenah**—Contract awarded to the Republic Creosoting Co., of Minneapolis, for repair of Commercial st. bridge at \$6,497.

## RAILROADS

**Ill., Chicago**—Work expected to start soon on \$60,000,000 union station by B. & O., Milwaukee, C. B. & Q., C. & A.

**Iowa, Leon**—Frank Farquahr has let contract for modern bungalow, to Geo. Penniwell; 6-room, bath.

**Iowa, Leon**—C. W. Hoffman is planning to begin soon on erection of modern residence, 26x38, 2-story; Lew Gillham will also build, modern.

**Iowa, Marshalltown**—N. W. road started survey for 3d av. viaduct.

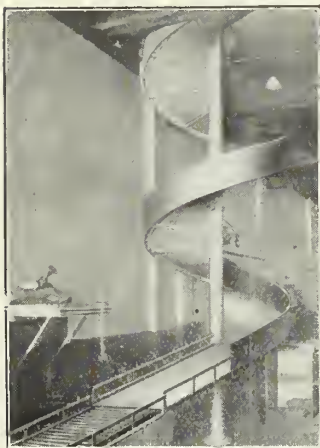
**Mich., Iron River**—Work will start in spring on extension of railroad to Junction with Gogebic county system and Menominee and Gogebic range will be connected by trunk line.

**Minn., Duluth**—Soo will resume work soon on the freight station, 29th and Michigan, 1-story, brick, 200 feet long.

**Minn., Gibbon**—Village will petition state railroad commission for a new M. & St. L. station.

**Minn., Minneapolis**—Red River Valley R. R. incorporated by W. H. Graves, Banner Grain Co., 906 Chamber of Commerce, Minneapolis; C. M. Drew, attorney, New York Life building and R. Hamilton, Milwaukee; capital \$1,000,000; line from Fargo north into Manitoba.





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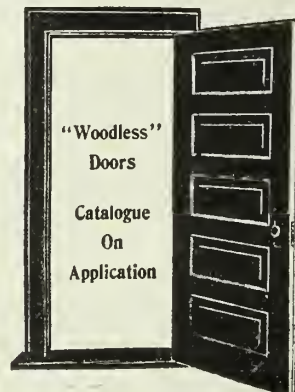
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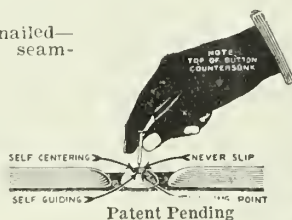
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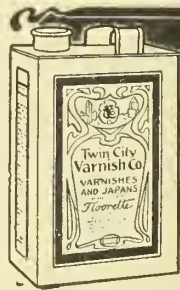
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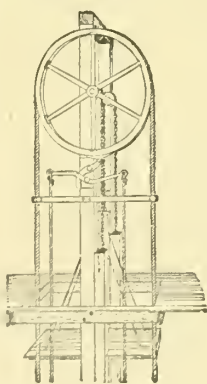
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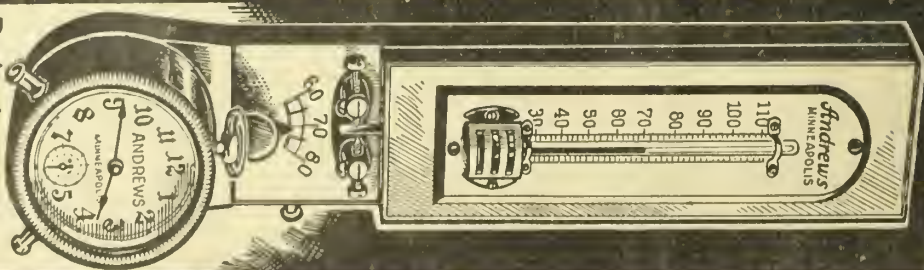
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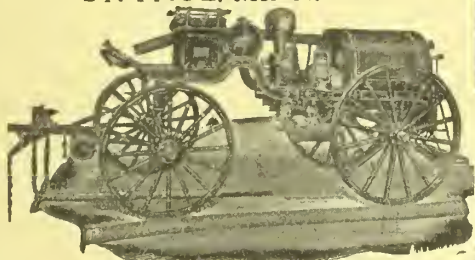
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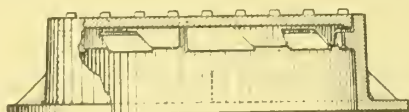
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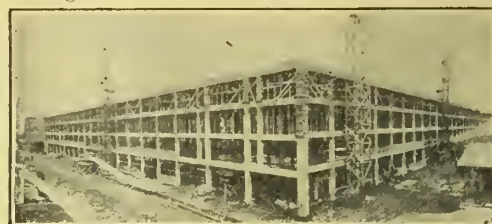
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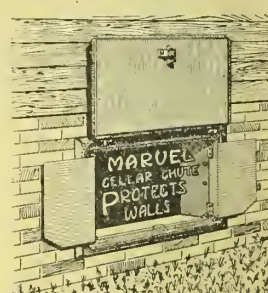
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Minneapolis, Minn.



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A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., March 20, 1915.

Number 16

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*Berger Manufacturing Co., Minneapolis, Minn	17-42	Krieger-Iamar Co., Duluth.....	43	Ricketsons Mineral Paint Works, Milwaukee..	22
Biesanz Stone Co., Winona, Minn.....	40	La Crosse Steel Roofing Co., La Crosse.....	30	Ross-Gould List & Letter Co., St. Louis.....	42
Boone Brick, Tile & Paving Co., Boone, Ia....	22	Lagerquist, Gust., Minneapolis.....	34	*Russell Grader Mfg. Co., Minneapolis, Minn...	32
Bovee Furnace Works, Waterloo, Ia.....	43	Landers-Morrison Christensen Co., Minneapolis	1	Sauk Rapids Granite Co., Sauk Rapids, Minn...	40
Bragstad Concrete Machinery Co., Canton, S. D		*Lansing Co., Lansing, Mich.....	19	L. Schluter, Chicago, Ill.....	2
Breen Stone Co., Kasota, & St. Paul, Minn...	40	Lehigh Sewer Pipe & Tile Co., Ft. Dodge, Ia.	36	Scott Graft Lumber Co., Duluth, Minn.....	30
Builders' Iron Works Co., St. Paul.....	26	Lewis A. Larsen, St. Paul, Minn.....	12	Scribner-Libby Co., St. Paul.....	30
Canton Steel Ceiling Co., Minneapolis.....	26	Lee & Hoff Mfg. Co., St. Paul.....	1	Selden Roofing & Mfg. Co., Minneapolis.....	30
Carney's Cement Works (Carney's Cement)...	6	Lilly Paper Co., Minneapolis.....	34	Shakopee Cement Lime Mfg. Co., St. Paul....	22
Carr-Cullen Co., Minneapolis.....	5	Lillyblad, Gust., Red Wing.....	38	W. W. Shepard, Minneapolis, Minn.....	36
Cement Tile Machinery Co., Waterloo, Ia....	18	lott & Co., K. F., Minneapolis and St. Paul...	28	Sioux City Brick & Tile Co., Sioux City, Ia....	22
Chain Belt Co., Milwaukee, Wis.....	32	W. H. Lutton Co., Minneapolis, Minn.....	34	T. L. Smith Co., Milwaukee, Wis.....	15
Chaska Brick & Tile Co., Chaska.....	22	Majestic Furnace & Foundry Co., Minneapolis	42	Speakes Lime & Cement Co., Superior, Wis...	38
Clausen, Oscar, Engineering Co., St. Paul....	12	Mantorville Stone Co., Mantorville, Minn...	40	Standard Salt & Cement Co., Duluth.....	1
Clinton Bridge Works, Clinton, Ia.....	20	Mason City Brick & Tile Co., Mason City, Ia.	22	*Chas. H. Stelling Co., Milwaukee, Wis.....	16
Contractors Machinery Co., Keokuk, Ia.....	9	Mason City Sand & Gravel Co., Mason City, Ia	31	M. B. Stone, Minneapolis.....	26
Corrugated Bar Co., St. Paul.....	2	McCarthy, J. F., Minneapolis.....	38	St. Paul Foundry Co., St. Paul.....	20
W. P. Cowles, Minneapolis.....	12	Mechanical Specialty Co., St. Paul, Minn...	34	St. Paul Lime & Cement Co., St. Paul.....	1
Crane Co., Minneapolis.....	38	Midway Ornamental Iron Works, St. Paul...	26	St. Paul Roofing, Cornice & Ornament Co., St. Paul	14
Crane & Ordway Co., St. Paul.....	83	*Milwaukee Concrete Mixer Co., Milwaukee, Wis	16	Sterling Electric Co., Minneapolis.....	36
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Roy Curtis, Duluth, Minn.....	12	Minneapolis Electric Equipment Co.....	36	I. Stephenson Co., Wells, Mich.....	6
D. & D. Safety Cover Co., Minneapolis, Minn.		Minneapolis Steel & Machinery Co., Minneapolis	20	S. Swenson Artesian Well Co., Minneapolis...	43
Decker Hardware Co., St. Paul.....	6	Minnesota Art Glass Co., Minneapolis.....	28	*H. C. Thomas & Bro., La Crosse, Wis.....	26
Des Moines Bridge & Iron Works, Des Moines.	20	Minnesota Fama Stonewood Co., Minneapolis.	26	Thorp Fireproof Door Co., Minneapolis.....	36
Des Moines Structural Steel Works, Des Moines,	2	Minnesota Manufacturers Association.....	44	*Turner, C. A. P., Minneapolis.....	32
Diamond Labor Agency, Chicago, Ill.....	12	Minnesota Roofing & Cornice Works, St. Paul.	30	G. A. Turner, Minneapolis, Minn.....	33
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Drake Marble & Tile Co., St. Paul.....	36	Minneapolis.....	36	*Twin City Tank, Silo & Specialty Co., Minnea-	
Duluth Corrugating & Roofing Co., Duluth...	43	The Monarch Company, St. Paul, Minn.....	30	polis, Minn.....	24
Duluth Cut Stone Co., Duluth.....	43	W. K. Morrison Co., Minneapolis.....	6	Twin City Tile & Marble Co., Minneapolis...	24
Dunlop-Moore Co., Duluth.....	43	Rufus P. Morton, Princeton, Minn.....	14	Twin City Varnish Co., St. Paul.....	44
Edward Edinger Co., Cedar Rapids, Ia.....	14	*Mortar Mixer Corporation, Iowa City, Iowa...	19	Union Fibre Co., Winona, Minn.....	18
Enterprise Iron Works, Albert Lea, Minn....	20	National Fireproofing Co., Minneapolis-Chicago	22	*United Iron Works Co., Springfield, Mo.....	19
*Excelair Brick Company, Menomonee, Wis...	42	National Mfg. & Supply Co., Minneapolis...	38	*Universal Portland Cement Co., Minneapolis.	10
*Farnham Printing & Stationery Co., Minneapolis		New Elm Stone Co., New Elm, Minn.....	38	Van Kannel Revolving Door Co., St. Paul....	34
Flint Brick Co., Des Moines, Ia.....	22	North Iron Insulating Co., St. Paul, Minn...	1	Vogenthaler Co., E. J., Dubuque, Ia.....	34
Walter H. Flood, Chicago, Ill.....	12	Northland Pine Co., Minneapolis, Minn.....	38	Warner Hardware Co., Minneapolis.....	6
Fowler & Pay, Mankato-Minneapolis.....	34	North Star Varnish Co., Minneapolis.....	11	Waterloo Cement Machy. Corp. Waterloo, Ia.	16
*Galion Iron Works & Mfg. Co., Minneapolis...	18	Northwestern Bedding Co., St. Paul, Minn...	34	Waterous Engine Co., St. Paul.....	1
Gardner Hardware Co., Minneapolis.....	6	N. W. Building Material Exhibit, Minneapolis	24	E. Wege Concrete Machinery Co., La Crosse, Wis.	18
*General Western Material Co., Waterloo, Iowa	26	Northwestern Concrete Steel Co., Minneapolis	20	David White Company Milwaukee, Wis.....	2
*Gibson Mfg. Co., Waterloo, Iowa.....	26	Northwestern Fireproofing Co., Minneapolis...	22	Widell Co., Mankato, Minn.....	40
Gray, Fred L. Co., Minneapolis.....	16	Northwestern Lame Co., St. Paul.....	1	Wis Land & Lumber Co., Hermannville, Mich	1
*Griffin & Boehme, St. Paul.....	34	Northwestern Marble & Tile Co., Minneapolis.	24	Wolff, L. P., St. Paul.....	24
Grossman Instrument Work, St. Paul, Minn...	26			Ellis Woolman, Minneapolis, Minn.....	34
Haakinson & Beatty Co., Sioux City, Ia.....	30			Youngstown Steel & Iron Co., Youngstown, O.	20

Advs. marked \* appear every other week.

Advs. marked † appear in the 1st issue of the month

Advs. marked ‡ not in this issue



# The Buyers Directory of Building Materials, Machinery and Supplies

For street address of firms mentioned here, please consult their advertisements which can be found by referring to the Alphabetical List of Advertisers

**ARCHITECTURAL MODELING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.

**ARCHITECTS' SUPPLIES.**  
Grossman Structural Works, St. Paul, Minn.  
Minneapolis Blue Rtg. Co., Mpls., Minn.  
**ASBESTOS AND MAGNESIA PRODUCTS.**  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co., Duluth, Minn.  
W. S. Nott Company, Minneapolis, Minn.

**ARTESIAN WELLS.**  
J. F. McCarthy, Minneapolis, Minn.  
S. Swenson Artesian Well Co., Minneapolis, Minn.

**BANKS.**  
Northwestern National Bk., Mpls., Minn.

**BANK AND STORE FIXTURES.**  
H. W. Johns-Manville Co., Minneapolis, Minn.

**BOILERS.**  
Andrews Heating Co., Minneapolis, Minn.  
Associate Mfrs. Supply Co., Mpls., Minn.  
Crane & Ordway Co., St. Paul, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
Kenny Boiler & Mfg. Co., St. Paul, Minn.  
Mechanical Specialty Co., Minneapolis, Minn.

**BONDS-SURFITY.**  
Hood & Matschke Co., Minneapolis, Minn.  
Wm. B. Joyce & Co., Mpls.-St. Paul, Minn.

**BRASS GOODS.**  
National Mfg. & Supply Co., Mpls., Minn.

**BRICK AND TILE.**  
American Brick & Tile Co., Mason City, Ia.  
Belt Line Brick Co., Minneapolis, Minn.  
Roone Brick, Tile & Paving Co., Boone, Ia.  
Chaska Brick & Tile Co., St. Paul, Minn.  
Dickinson Brick Co., Dickinson, N. D.  
Excelsior Brick Co., Menomonie, Wis.  
Flint Brick Co., Des Moines, Ia.  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hebron Fire & Pressed Brick Co., Hebron, N. D.

**Hydraulic Press Brk. Co., Minneapolis, Minn.**  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Lehigh Sewer Pipe & Tile Co., Fort Dodge, Iowa  
Mason City Brick & Tile Co., Mason City, Ia.  
Rufus P. Morton, Princeton, Minn.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.  
Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Shevlin-Carpenter Lumber Co., Minneapolis  
Sioux City Brick & Tile Co., Sioux City, Ia.

**Standard Salt & Cement Co., Duluth, Minn.**  
**St. Paul Lime & Cement Co., St. Paul, Minn.**  
**Twin City Brick Co., St. Paul-Mpls., Minn.**

**BRIDGES.**  
American Bridge Co., Minneapolis, Minn.  
Clinton Bridge Works, Clinton, Ia.  
Corrugated Bar Co., St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**BUCKETS-CONTRACTORS'.**  
H. B. Jones, Security Bank, Minneapolis  
G. E. Ingersoll & Co., St. Paul, Minn.

**BUILDING MATERIAL.**  
Baxter Sash & Door Co., Duluth, Minn.  
Biesanz Stone Co., Winona, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul  
Scott-Graff Lumber Co., Duluth, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Northland Pine Co., Minneapolis, Minn.  
N. W. Building Material Exhibit, Minneapolis, Minn.  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**BUILDERS' SPECIALTIES.**  
Dunlop-Moore Co., Duluth, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Paine & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
G. A. Turner, Minneapolis, Minn.

**CALKING PASTE.**  
Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.

**CEMENT.**  
Atlas Portland Cement Co., Minneapolis  
Carnegie's Cement Works, Mankato, Minn.  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
W. W. Lime Co., Mpls. and St. Paul, Minn.  
J. W. States Portland Cement Co., Mason City, Iowa  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Sneakers Lime & Cement Co., Superior, Wis.  
Northland Pine Co., Minneapolis, Minn.

**St. Paul Lime & Cement Co., St. Paul, Minn.**  
**Universal Portland Cement Co., Minneapolis**

**CELLS, STEEL.**  
Builders Iron Works, St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**CEILING, STEEL.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Canton Steel Ceiling Co., Minneapolis, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis  
H. C. Thomas & Bro., La Crosse, Wis.

**CEMENT FILLER.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**COAL CHUTES.**  
American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Fowler & Pay, Mankato, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

**COLD STORAGE PLANTS.**  
Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.

**CONCRETE CONSTRUCTION.**  
Avery Steel & Iron Co., Minneapolis  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

**CONTRACTORS LEVELS AND SUPPLIES.**  
David White Co., Milwaukee, Wis.

**CONCRETE MACHINERY.**  
Atlas Engineering Co., Milwaukee, Wis.  
Badger Concrete Mixer Co., Milwaukee, Wis.  
Brastad Concrete Mach. Co., Canton, S. D.  
Cement Tile Machinery Co., Waterloo, Ia.  
Chain Belt Co., Milwaukee, Wis.  
Contractors Machinery Co., Keokuk, Iowa  
Koehring Machine Co., Minneapolis, Minn.  
The Lansing Co., Minneapolis, Minn.  
N. W. Concrete Steel Co., Minneapolis  
Raymer Hardware Co., St. Paul, Minn.  
The T. L. Smith Co., Milwaukee, Wis.  
N. W. Steel & Iron Works, Eau Claire, Wis.  
Standard Salt & Cement Co., Duluth, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.  
Chas. H. Sterling Co., Milwaukee, Wis.  
Waterloo C. Mach. Corp., Waterloo, Ia.  
and W. H. Hale & Co., Minneapolis, Minn.  
Ellis Woolman, Minneapolis, Minn.  
E. Wege Concrete Machinery Co., La Crosse, Wis.

**CONCRETE REINFORCING BARS.**  
Avery Steel & Iron Co., Minneapolis  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**CORNICES.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

**CORRUGATED IRON, ETC.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Avery Steel & Iron Co., Minneapolis  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.

**CONCRETE REINFORCING.**  
Berger Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.

**CONTRACTORS SUPPLIES AND MACHINERY.**  
Decker Hardware Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Ellis Woolman, Minneapolis, Minn.

**CULVERTS.**  
Berger Mfg. Co., Minneapolis, Minn.  
Biesanz Stone Co., Winona, Minn.  
Gallon Iron Works, Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.

**CRUSHED STONE.**  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Elm Stone Co., New Elm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Wildell Co., Mankato, Minn.

**DEADENING MATERIAL.**  
Cement Tile Machinery Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn.

..Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

**DECORATIONS.**  
Odin J. Oyen, La Crosse, Wis.

**DITCHING MACHINES.**  
Bay City Dredge Works, Bay City, Mich.  
United Iron Works, Springfield, Mo.

**DREDGES.**  
Bay City Dredge Works, Bay City, Mich.

**ELECTRICAL ENGINEERING.**  
Beck Electrical Construction Company, Minneapolis, Minn.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

**ELECTRIC MOTORS AND SUPPLIES.**  
Beck Electrical Construction Company, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.  
Sterling Electric Co., Minneapolis, Minn.

**ELEVATORS AND ENCLOSURES.**  
Kimball Bros Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

**ELEVATOR CABS.**  
N. W. Fixture & Cabinet Co., Mpls., Minn.

**ENGINEERS.**  
Oscar Claussen Engineering Co., St. Paul, Minn.  
Walter H. Flood, Chicago, Ill.  
Lewis A. Larsen, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
W. P. Cowles, Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

**EXCAVATORS.**  
Bay City Dredge Works, Bay City, Mich.

**FIRE ESCAPES.**  
Avery Steel & Iron Co., Minneapolis  
Builders Iron Works, St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

**FIRE HYDRANTS.**  
Waterous Engine Works Co., St. Paul, Minn.

**FIREPROOF DOORS.**  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Thorp Fireproof Door Co., Minneapolis, Minn.

**FLUE LINING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

**FIRE PROTECTION APPARATUS.**  
Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

**FIREPROOFING DOORS AND SHUTTERS.**  
Haakinson & Beatty Co., Sioux City, Iowa  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

**FLOORING.**  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Fama Stonewood Co., Minneapolis  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graff Lumber Co., Duluth, Minn.  
Northland Pine Co., Minneapolis, Minn.  
Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.

**FLOOR SURFACING MACHINES.**  
M. L. Schlueter, Chicago, Ill.

**FURNACES.**  
Bovee Furnace Works, Waterloo, Iowa  
Gibson Mfg. Co., Waterloo, Iowa

**FURRING.**  
Corrugated Bar Co., St. Paul, Minn.

**GAS AND ELECTRICAL FIXTURES.**  
Jerdee & Hendrickson, Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

**GLASS.**  
American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

**GRAVITY CARRIER.**  
Minnesota Manufacturers' Association, North St. Paul, Minn.

**GREENHOUSES AND GLASS STRUCTURES.**  
W. H. Lutton Co., Minneapolis, Minn.

**HARDWARE TRIMMINGS.**  
Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morrison & Co., Minneapolis  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

**HEAT REGULATORS.**  
Andrews Heating Co., Minneapolis, Minn.

**HEATING AND VENTILATING.**  
Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

**HOISTS.**  
H. W. Johns-Manville Co., Minneapolis  
Koehring Machine Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

**HOSE.**  
Gardner Hardware Co., Minneapolis, Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

W. K. Morison & Co. . . . Minneapolis, Minn.  
W. S. Nott Company . . . Minneapolis, Minn.  
Waterous Engine Works Co. . . St. Paul, Minn.

**INSULATING MATERIAL.**  
Haakinson & Beatty Co. . . . Sioux City, Iowa  
Hydraulic Press Brick Co. . . Minneapolis, Minn.  
H. W. Johns-Manville Co. . . . Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co. . . . St. Paul  
W. S. Nott Company . . . Minneapolis, Minn.  
Standard Salt & Cement Co. . . Duluth, Minn.  
Union Fibre Co. . . . Winona, Minn.

**INSURANCE.**  
Fred L. Gray Co. . . . Minneapolis, Minn.  
Hood & Matschke . . . Minneapolis, Minn.  
W. B. Joyce Co. . . . Mpls. and St. Paul, Minn.

**IRON AND STEEL WORK.**  
American Bridge Co. . . . Minneapolis, Minn.  
Avery Steel & Iron Co. . . . Minneapolis, Minn.  
Builders Iron Works . . . St. Paul, Minn.  
Clinton Bridge Works . . . Clinton, Ia.  
Crown Iron Works . . . Minneapolis, Minn.  
Des Moines Bridge & Iron Co. . . Des Moines, Iowa  
Des Moines Structural Steel Works . . Des Moines, Iowa

Haakinson & Beatty Co. . . . Sioux City, Iowa  
Inland Steel Co. . . . St. Paul, Minn.  
Minneapolis Steel & Mach. Co. . Mpls., Minn.  
N. W. Concrete Steel Co. . . Minneapolis, Minn.  
St. Paul Foundry Co. . . . St. Paul, Minn.  
E. J. Voggenthaler Co. . . . Dubuque, Ia.  
Youngstown Iron & Steel Co. . . Minneapolis, Minn.

**JOIST HANGERS.**  
American Bridge Co. . . . Minneapolis, Minn.  
Avery Steel & Iron Co. . . . Minneapolis, Minn.  
Crown Iron Works Co. . . . Minneapolis  
Des Moines Bridge & Iron Co. . . Des Moines, Iowa  
Haakinson & Beatty Co. . . . Sioux City, Iowa  
Minneapolis Steel & Mach. Co. . Mpls., Minn.  
Northwestern Concrete Steel Co. . St. Paul, Minn.  
St. Paul Foundry Co. . . . St. Paul, Minn.

**LABORERS.**  
Diamond Labor Supply Co. . . . Chicago, Ill.

**LIME.**  
General Western Material Co. . Waterloo, Ia.  
Fowler & Pay . . . Mankato, Minn.  
Hydraulic Press Brick Co. . . Minneapolis, Minn.  
Landers-Morrison-Christenson Co. . Minneapolis, Minn.  
Gust Lillyblad . . . Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co. St. Paul, Minn.  
Speakes Lime & Cement Co. . Superior, Wis.  
Northland Pine Co. . . . Minneapolis, Minn.  
St. Paul Lime & Cement Co. . St. Paul, Minn.  
Standard Salt & Cement Co. . Duluth, Minn.  
The Northwestern Lime Co. . St. Paul, Minn.

**MANTELS—GRATES.**  
Drake Marble & Tile Co. . . . Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co. . . . Duluth, Minn.  
Haakinson & Beatty Co. . . . Sioux City, Iowa  
N. W. Marble & Tile Co. . . Minneapolis, Minn.  
Peerless Marble & Tile Co. . . Minneapolis  
Twin City Tile & Marble Co. . . Mpls., Minn.

**MARBLE, TILING, MOSAIC.**  
Drake Marble & Tile Co. . . . Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co. . . . Duluth, Minn.  
Haakinson & Beatty Co. . . . Sioux City, Iowa  
N. W. Marble & Tile Co. . . Minneapolis, Minn.  
Peerless Marble & Tile Co. . . Minneapolis  
Twin City Tile & Marble Co. . . Mpls., Minn.

**METAL SHINGLES.**  
Badger Steel Roofing & Corrugating Co. . . La Crosse, Wis.  
Berger Mfg. Co. . . . Minneapolis, Minn.  
Haakinson & Beatty Co. . . . Sioux City, Iowa  
W. S. Nott Company . . . Minneapolis, Minn.

**METAL AND WIRE LATH.**  
Avery Steel & Iron Co. . . . Minneapolis  
Badger Steel Roofing & Corrugating Co. . La Crosse, Wis.  
Berger Mfg. Co. . . . Minneapolis, Minn.  
Corrugated Bar Co. . . . St. Paul, Minn.  
Des Moines Bridge & Iron Co. . . Des Moines, Iowa

General Western Material Co. . Waterloo, Ia.  
Hydraulic Press Brick Co. . . Minneapolis, Minn.  
Johnson, Jackson & Corning Co. . Minneapolis and St. Paul, Minn.  
Northwestern Lime Co. . . St. Paul, Minn.  
Northland Pine Co. . . . Minneapolis, Minn.  
St. Paul Lime & Cement Co. . St. Paul, Minn.

**MILLWORK.**  
Baxter Sash & Door Co. . . . Duluth, Minn.  
Osgood Blodgett Mfg. Co. . . St. Paul, Minn.  
Scott-Graff Lumber Co. . . . Duluth, Minn.

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Mortar Mixer Corporation . . Iowa City, Iowa  
Standard Salt & Cement Co. . Duluth, Minn.

**OFFICE FURNITURE.**  
Farnham Printing & Sta. Co. . Mpls., Minn.

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Avery Steel & Iron Co. . . . Minneapolis  
Builders Iron Works Co. . . Minneapolis and St. Paul, Minn.  
Crown Iron Works Co. . . . Minneapolis  
Des Moines Bridge & Iron Co. . Des Moines, Iowa  
Haakinson & Beatty Co. . . . Sioux City, Iowa  
Midway Ornamental Iron Works . . St. Paul, Minn.

Minneapolis Steel & Mach. Co. . Mpls., Minn.  
St. Paul Foundry Co. . . . St. Paul, Minn.

**PAINTS, FILLERS, ETC.**  
Gardner Hardware Co. . . Minneapolis, Minn.  
Hydraulic Press Brick Co. . Minneapolis, Minn.  
H. W. Johns-Manville Co. . Minneapolis  
Ricketson Mineral Paint Works . . Milwaukee, Wis.

**PACKINGS AND HOSE.**  
H. W. Johns-Manville Co. . . Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company . . . Minneapolis, Minn.

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Barrett Mfg. Co. . . . New York, N. Y.

**PIPE—CAST IRON.**  
American Cast Iron Pipe Co. . Minneapolis  
**PIPE AND BOILER COVERING.**  
H. W. Johns-Manville Co. . . Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company . . . Minneapolis, Minn.

**PLASTER—WALL.**  
Fowler & Pay . . . Mankato, Minn.  
General Western Material Co. . Waterloo, Ia.  
Hydraulic Press Brick Co. . Minneapolis, Minn.  
H. W. Johns-Manville Co. . . Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co. . . . Fort Dodge, Ia.  
Shakopee Cement Lime Co. . St. Paul, Minn.  
Northland Pine Co. . . . Minneapolis, Minn.  
St. Paul Lime & Cement Co. . St. Paul, Minn.  
Standard Salt & Cement Co. . Duluth, Minn.

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Monarch Co. . . . St. Paul, Minn.  
Roy Curtis . . . Duluth, Minn.

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**PLASTIC ORNAMENTS.**  
Monarch Co. . . . St. Paul, Minn.  
K. F. Lott & Co. . . Mpls. and St. Paul, Minn.

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Crown Iron Works Co. . . . Minneapolis

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**POWER PLANTS.**  
National Mfg. & Supply Co. . . Mpls., Minn.

**REVOLVING DOORS.**  
Van Kannel Revolving Door Co. . . St. Paul, Minn.

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Galion Iron Works . . . Minneapolis, Minn.  
Russell Grader Mfg. Co. . Minneapolis, Minn.

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Griffin & Boehme . . . St. Paul, Minn.  
H. W. Johns-Manville Co. . . Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co. . . . Duluth, Minn.  
Minnesota Roofing & Cornice Works . . St. Paul, Minn.

Northwestern Lime Co. . . St. Paul, Minn.  
Scribner-Libby Co. . . . St. Paul, Minn.  
W. S. Nott Company . . . Minneapolis, Minn.  
Seiden Roofing & Manufacturing Co. . Minneapolis, Minn.

**ROOFING—METAL.**  
Badger Steel Roofing & Corrugating Co. . La Crosse, Wis.  
Berger Mfg. Co. . . . Minneapolis, Minn.  
Duluth Corrugating & Roofing Co. . . Duluth, Minn.

Gardner Hardware Co. . Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co. W. S. Nott Company . . Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornamental Co. . . St. Paul, Minn.  
N. W. Roofing, Cornice & Stamping Works . . Minneapolis, Minn.  
H. C. Thomas & Bro. . . La Crosse, Wis.

**ROOFING MATERIAL.**  
Badger Steel Roofing & Corrugating Co. . La Crosse, Wis.  
Barrett Mfg. Co. . . . New York, N. Y.  
Biesanz Stone Co. . . . Winona, Minn.  
Corrugated Bar Co. . . . St. Paul, Minn.  
General Western Material Co. . Waterloo, Ia.  
Hydraulic Press Brick Co. . Minneapolis, Minn.  
John Leslie Paper Co. . . Minneapolis, Minn.  
H. W. Johns-Manville Co. . . Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company . . . Minneapolis, Minn.  
Northland Pine Co. . . . Minneapolis, Minn.  
Standard Salt & Cement Co. . Duluth, Minn.

**ROOFING AND SIDING—IRON AND STEEL.**  
Badger Steel Roofing & Corrugating Co. . La Crosse, Wis.  
Berger Mfg. Co. . . . Minneapolis, Minn.  
Gardner Hardware Co. . Minneapolis, Minn.  
Inland Steel Co. . . . St. Paul, Minn.  
H. W. Johns-Manville Co. . Minneapolis

**SAND AND GRAVEL.**  
Humboldt Sand & Gravel Co. . Humboldt, Ia.  
Mason City Sand & Gravel Co. . . Mason City, Ia.

**SHINGLES—RUBBER.**  
W. S. Nott Company . . . Minneapolis, Minn.  
Standard Salt & Cement Co. . Duluth, Minn.

**RUST-RESISTING IRON SHEETS.**  
Berger Mfg. Co. . . . Minneapolis, Minn.  
Inland Steel Co. . . . St. Paul, Minn.

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Biesanz Stone Co. . . . Winona, Minn.  
General Western Material Co. . Waterloo, Ia.  
Standard Salt & Cement Co. . Duluth, Minn.

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Carr-Cullen Co. . . . Minneapolis, Minn.  
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Northland Pine Co. . . . Minneapolis, Minn.

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Haakinson & Beatty Co. . . Sioux City, Iowa  
Iowa Sewer Pipe & Tile Co. . Des Moines, Ia.  
Lehigh Sewer Pipe & Tile Co. . . Fort Dodge, Iowa  
Northwestern Lime Co. . . St. Paul, Minn.  
Plymouth Clay Products Co. . . Red Wing, Minn.  
Red Wing Sewer Pipe Co. . Red Wing, Minn.  
Standard Salt & Cement Co. . Duluth, Minn.

St. Paul Foundry Co. . . . St. Paul, Minn.  
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Berger Mfg. Co. . . . Minneapolis, Minn.  
Gardner Hardware Co. . Minneapolis, Minn.  
Haakinson & Beatty Co. . . Sioux City, Iowa  
Inland Steel Co. . . . St. Paul, Minn.

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Avery Steel & Iron Co. . . . Minneapolis  
Crown Iron Works Co. . . . Minneapolis  
Berger Mfg. Co. . . . Minneapolis, Minn.  
General Western Material Co. . Waterloo, Ia.  
Haakinson & Beatty Co. . . Sioux City, Iowa  
K. F. Lott & Co. . . . St. Paul and Minneapolis, Minn.

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Haakinson & Beatty Co. . . Sioux City, Iowa  
Krieger-Jamar Co. . . . Duluth, Minn.  
St. Paul Roofing, Cornice & Ornament Co. . St. Paul, Minn.

**STACK LINING.**  
H. C. Thomas & Bro. . . La Crosse, Wis.

**STEEL—BARS.**  
American Bridge Co. . . . Minneapolis, Minn.  
Avery Steel & Iron Co. . . . Minneapolis  
Haakinson & Beatty Co. . . Sioux City, Iowa  
Inland Steel Co. . . . St. Paul, Minn.  
Twin City Tile & Marble Co. . Mpls., Minn.

**STONE.**  
Babcock & Wilcox . . . Kasota, Minn.  
Biesanz Stone Co. . . . Winona, Minn.  
Green Stone Co. . . . St. Paul, Minn.  
Edw. Edinger Co. . . . Cedar Rapids, Ia.  
Fowler & Pay . . . Mankato, Minn.  
Kettle River Co. . . . Minneapolis, Minn.  
Duluth Cut Stone Co. . . . Duluth, Minn.  
Mantorville Stone Co. . . Mantorville, Minn.  
New Ulm Stone Co. . . . New Ulm, Minn.  
Pioneer Granite Co. . . . St. Cloud, Minn.  
Sauk Rapids Granite Co. . . . Sauk Rapids, Minn.

Wm. Penn Stone Co. . . Minneapolis, Minn.  
The Widell Co. . . . Mankato, Minn.  
**STRUCTURAL SECTIONS AND SHEETS.**  
American Bridge Co. . . Minneapolis, Minn.  
Avery Steel & Iron Co. . . Minneapolis  
Des Moines Bridge & Iron Co. . Des Moines, Iowa  
Inland Steel Co. . . . St. Paul, Minn.  
Haakinson & Beatty Co. . . Sioux City, Iowa

**TANKS—STEEL.**  
American Bridge Co. . . Minneapolis, Minn.  
Avery Steel & Iron Co. . . Minneapolis  
Des Moines Bridge & Iron Co. . Des Moines, Iowa  
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Belt Line Brick Co. . . . Mpls. and St. Paul  
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Crane Co. . . . Minneapolis, Minn.  
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G. A. Turner . . . Minneapolis, Minn.

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Hydraulic Press Brick Co. . Minneapolis, Minn.  
H. W. Johns-Manville Co. . Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co. . . St. Paul, Minn.  
W. S. Nott Company . . Minneapolis, Minn.  
Standard Salt & Cement Co. . Duluth, Minn.

**WATER TOWERS, STEEL.**  
American Bridge Co. . . Minneapolis, Minn.  
Des Moines Bridge & Iron Co. . Des Moines, Iowa  
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Waterous Engine Works Co. . St. Paul, Minn.

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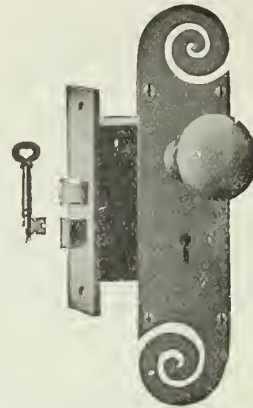


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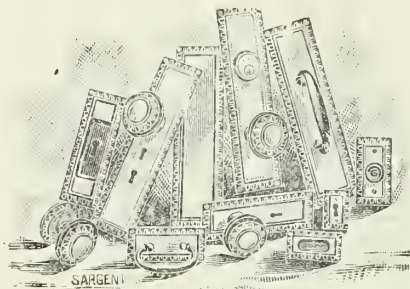
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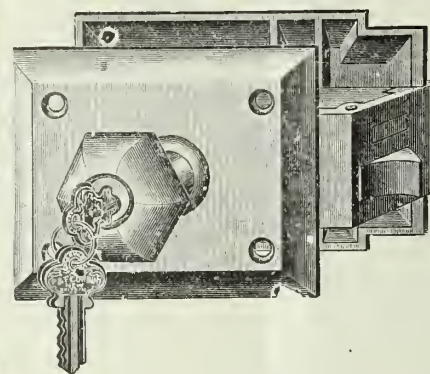
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ST. PAUL, MINN.



# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

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SATURDAY, MARCH 20, 1915

NUMBER 1

## EDITORIAL

O. L. COLBURN, Editor

### CANADA GOVERNMENT APPROPRIATES \$200,000,000.

For the fiscal year beginning April 1, 1915, for main estimates of the Minister of Finance of Canada, total over \$190,000,000. The chief items of capital expenditure on public work and railways and canals include \$8,128,250 for the Intercolonial railway; \$1,938,925 for the Prince Edward Island railway; \$5,500,000 for the Hudson Bay railway; \$5,000,000 for the National Transcontinental; \$3,500,000 for the Quebec bridge; \$5,500,000 for the Welland ship canal, \$1,821,500 for canals generally, and a total of \$9,459,000 to continue the works already under way at Esquimaux, Halifax, Port Arthur, Quebec, St. John, Toronto, Vancouver, Victoria and other harbors.

Saskatchewan:—Battleford—public buildings, improvements, \$4,500; Canora—public building, \$10,000; Indian Head—forestry branch, \$17,000; Kindersley—public building, \$20,000; Moose Jaw—customs examining warehouse, \$90,000, immigration hall, \$50,000, new public building, \$15,000; Prince Albert—drill hall, \$80,000; Regina—armory and drill hall, \$75,000, accommodation for assistant receiver-gen'l., \$75,000; customs examining warehouse, \$75,000; Rosthern—public building, \$10,000; Saskatoon—customs examining warehouse, \$50,000, drill hall, \$30,000, new public building, \$75,000; Swift Current—drill hall \$30,000, public building, \$50,000; Wadena—public building \$20,000.

Alberta:—Athabasca Landing—new public building, \$5,000; Bassano—public building, \$15,000; Calgary—accommodation for assistant receiver-general, \$25,000, customs examining warehouse, \$15,000, drill hall, \$100,000, headquarters for forestry and irrigation branches department of interior building, \$50,000, new post office site and building \$110,000, dominion building, improvements, repairs, etc., \$15,000; Edmonton—post office (addition) \$100,000; customs examining warehouse, \$75,000, new drill hall \$200,000; Grande Prairie—immigration hall, \$3,000; High River—public building, \$20,000; Macleod—public building, \$25,000; Medicine Hat—immigration building, \$20,000; public building (addition), \$25,000; Red River—public building, \$34,000; Vegreville—public building, \$25,000; Vermillion—public building, \$20,000; Wainwright—public building, \$20,000.

Manitoba Appropriations:—Votes for public buildings in the west include the following: Altamont—drill hall, \$10,000; Boisvein—public building, \$20,000; Brandon—public building, \$80,000; Carberry—public building, \$27,000; Carman—public building, \$10,000, dominion public buildings, improvements, repairs, etc., \$18,000; Elkhorn—public building \$19,000, Gretna—public building, \$25,000; Manitou—public building, \$19,000; Portage la Prairie—drill hall, \$20,000; Rivers—public building, \$10,000; Morden—public building, \$3,000; Norwood Grove—public building, \$10,000; Oak Lake—public building, \$19,000; Portage la Prairie—drill hall, \$20,000; Rivers—public building, \$20,000; Souris—drill hall, \$15,000; St. James—drill hall, \$25,000; Stonewall—public building, \$10,000; Virden—public building, \$10,000; Winnipeg—barracks, \$150,000, dominion buildings, improvements, repairs, etc., \$20,000, drill hall (new), \$170,000, immigration buildings, improvements, \$3,500, immigration building No. 1, cleaning and kalsomining, \$2,000,

new immigration building, \$40,000, (north), drill hall, \$70,000, postal stations "E," \$25,000, "C," (south), \$73,000, "D," (west), \$75,000.

British Columbia:—Vancouver, new detention building, \$160,000, postal station "B," \$124,000, postal station, "C," \$70,000, postal station "D," \$60,000; Victoria—drill hall, \$150,000, observatory, \$75,000, post office improvements \$80,000; Sidney—public building, \$17,000; Trail—public building \$20,000; Revelstoke—public building, \$50,000; Ashcroft—public building, \$25,000; Courtney—public building, \$20,000; Coquitlan—public building, improvements, repairs, etc., \$17,000; Fernie—drill hall, \$20,000; Ganges Harbor—public building, \$5,000; Golden—public building \$20,000; Grand Forks—public building, \$5,000; Greenwood—public building, \$10,000; Kamloops—drill hall, \$29,000, new public building, \$75,000; Kelowna—public building, \$30,000; Merritt—public building, \$25,000; Mission City—public building, \$20,000; New Hazelton—public building, \$9,500; North Vancouver—drill hall, \$10,000; Penticton—public building, \$15,000; Powell River—public building, \$20,000; Prince Rupert—drill hall, \$8,000, public building, \$147,000, quarantine station, \$80,000.

Manitoba:—The Pas—wharf, \$15,000; Red River—improvements, \$30,000, St. Andrew's locks and dam, improvements, \$22,000; Selkirk—harbor improvements, \$10,000; Winnipeg—harbor, wharfs, \$75,000.

Saskatchewan and Alberta:—Pigeon Lake—improvements \$2,500; Prince Albert—protection works, \$9,000; Saskatchewan River—improvements, \$50,000; Sturgeon River—improvements, \$9,500; White Rock—to complete wharf, \$10,500; North Thompson River at Kamloops—revetment wall, \$15,000; Okanagan River—protecting and improving navigable channel, \$5,000; details of votes for western harbor improvements, chargeable to capital, are: Vancouver—harbor improvements, \$1,000,000; Victoria—harbor improvements, \$1,400,000; Port Arthur and Fort William harbors, \$1,200,000; Esquimaux dry dock, \$250,000.

### THE QUESTION OF ADVERTISING CONCERNS CONTRACTORS.

Contractors have to depend on their bids to get business, but they are not reasonable in governing themselves by the fact so as to exclude all thoughts of advertising.

Opportunity for profitable advertising frequently presents itself to any and all men in any line of trade. This was illustrated by a recent attack on dull times with vigorous advertising by the General Roofing Co. of St. Louis. Instead of retrenching in these war times the company decided to spend \$200,000 in an advertising campaign. The enemy, depression, was routed, and a trade gain of 70 per cent over any former year was won. None of the 1,600 employes were laid off. "Even were the newspaper campaign to end now," said President Brown, "its results would continue to arrive for many months, but you can believe that I have no intention of ending it."

Contractors who think it is "no use" to advertise would do well to consider this instance of the roofing company, for friends told them it was "no use" to waste time in considering such a step. Money can be wasted fast in advertising. Every man must consider the peculiar needs of his own business in spending money on publicity. The contractor needs to advertise occasionally at least, because, for one reason, new architectural and engineering offices are being opened constantly. The new firms are not likely to be familiar with the list of contractors. The occasional advertisement of a contractor helps keep him up to date through the attention it attracts from firms, manufacturers and dealers who can interest him with their products and processes.

It is always a good business practice to keep the name before the public.



# Over 85 Miles of Ditches to be Constructed

The board of Itasca, Minn., county commissioners recently authorized preliminary surveys to be made for three proposed county ditches. These were designated as county ditches Nos. 3, 4 and 5. Reusswig & Webster were appointed to make the survey for ditch No. 4, H. E. Nightingale for No. 3 and F. E. Williams for No. 5. The purpose of these ditches is to drain that swamp and marsh land north of Deer River. The three ditches and laterals on either side of them will be about eighty-five miles in length and will drain a large area of land. It is estimated that about one hundred and fifty sections of land will be made suited to cultivation when drained by these ditches.

The firm of Reusswig & Webster completed the preliminary survey for ditch No. 4 the first of the week. This ditch starts at a point about eight miles north of Deer River and runs due south, terminating in White Oak lake. The main ditch will be about 14 miles long and the laterals on each side will be about ten miles in length, making the length of the entire ditch approximately 24 miles. This proposed ditch, it is estimated, will drain in the neighborhood of 40 sections of swamp and marsh land. About 30 sections will be drained by the main ditch and ten sections by the laterals.

The survey for ditch No. 3 is well under way by H. E. Nightingale and will be completed some time this week. This ditch will be located west of ditch No. 4 and the main ditch

and laterals will be about 35 miles in length, draining about 60 sections of land.

The work of surveying for ditch No. 5 was just started this week and will not be finished for some time. This work is being done under the direction of F. E. Williams. It will be situated directly north of ditch No. 4 and will be about 25 miles long, including the laterals. The estimate of the amount of land that will be drained by this ditch is 40 acres.

Estimates as to the cost of these ditches have not yet been completed but they will be as soon as all of the surveys have been made. After this has been done the matter will be taken up by the commissioners at Grand Rapids, the county seat, and they will then determine as to whether or not the ditches shall be established. The people can readily realize what the successful establishment of these ditches will mean to the future of the county. As has been stated above, over one hundred sections of swamp and marsh land, now of no value whatever, will be drained and placed in a condition to be utilized for farming purposes. This means that nearly one hundred thousand acres of land will be made suitable for farming. This is a vast area. The project means much to the future development of Itasca county. Farming is one industry that is permanent and insures rapid progress. The initial cost of establishing these ditches will be small, in comparison to the benefit derived from them, and they are but additional evidence of the progress and development of Itasca county and Northern Minnesota.

## GROOVED BRICK FOR STEEP GRADES.

Grooved brick of the wire-cut-lug type, designed to prevent horses from slipping on steep grades, have been laid for the first time in the United States at Grove City, Pa. The contract for the work has just been completed. The steepest grade on which the hillside bricks were used was 7 per cent. The bricks are the same size and have the same features as the ordinary Dunn wire-cut-lug brick with the additional feature of two transverse grooves on the wearing surface. The blocks are laid so that the grooves lie at a right-angle to the curb. The joints of the brick are broken in the course so that the grooves do not run continuously across the streets, but break, theoretically, at every joint, thereby making a groove  $3\frac{1}{2}$  inches long at equal distances of 2.38 inches, thus allowing the tread of broad tired vehicles to bridge the joints and run over the pavement without jolting.

Successful grouting of hillside brick on a heavy grade is said to depend chiefly upon the putting of small quantities of grout on the pavements at a time and immediately crushing it into the joint.

## A BATCH TIMING AND MEASURING DEVICE ON A CONCRETE MIXER.

The concrete mixer for road work exhibited by the Koehring Machine Co., at the show accompanying the annual convention of the American Road Builders' Association at Chicago, has as auxiliary equipment a new attachment for recording the number of batches and for determining the duration of a mix of each batch.

This attachment, called the "Batchometer," consists of a small recording meter and an automatic signal bell, housed with necessary dry batteries in a metal case with glass doors 14 inches square by 4 inches thick. This case is shown in the accompanying view.

When the side loader is raised the short arm shown is also raised, operating the meter and at the same time raising the rod piston in the cylinder, which is filled with glycerin. After a definite time, which can be adjusted as required by a little contact point fastened by a set-screw to the vertical rod and has a range of from 3 seconds to 3 minutes, the bell is rung as a signal to the operator to dump the batch. The same signal can be used to control the operation of the side loader so that loading and dumping can be made practically simultaneous. Such an equipment eliminates guesswork from the time of batch mixing and should assure the uniform mixing of all the batches. At the end of the day there is also readily available a complete record of the total number of batches run.—Engineering News.

Thomas G. Bush has been appointed assistant highway commissioner for the state of Washington. Mr. Bush was formerly manager of F. T. Crowe & Co., a Spokane firm engaged in supplying cement and contractor's equipment.

## RECENT LEGAL DECISIONS.

**Delivery of Material**—An actual delivery upon the premises of material sold and furnished a contractor for use in the construction of a building thereon is not necessary, as against the owner, to vest in the materialman a right of lien under our mechanic's lien statutes. *Thompson-McDonald Lumber Co. v. Morawetz*, Supreme Court of Minnesota, 149 Northwestern 300.

**Lien and Insurance**—Where the owner of real estate insures his interest therein against loss by fire, in the absence of contract obligation, the holder of a mechanic's lien on the property has, after a loss by fire, no claim upon the proceeds of the insurance money. *Imperial Elevator Co. v. Bennett*, Supreme Court of Minnesota, 149 Northwestern 372.

**Enforcement of Lien**—In a suit to enforce a mechanic's lien, where the complaint alleges the value of labor and material at a certain sum, which is not denied, though the authority of the plaintiff to furnish the labor and material is questioned, the claim, if allowed, must be granted in the full amount alleged. *Burness v. Honeyman Hardware Co.*, Supreme Court of Oregon, 143 Pacific 641.

**Performance of Contract**—Under L. O. L. Sections 725, 726, providing that the evidence shall correspond with the substance of the material allegations and each party shall prove his own affirmative allegations, where the contract alleged in a suit to foreclose a contractors' lien provided for drainage, from exterior moisture and seepage, which was omitted, and for an even and sufficient drainage to all floor drains and traps, while the floor as fashioned would not completely drain to the outlets, the lien will not be enforced, but the contractors will be remitted to their remedy at law. *Maynard v. Lange*, Supreme Court of Oregon, 143 Pacific 648.

## PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file March 13: Creamery, Wendell, Minn., March 15; store and office building, Little Falls, Minn., (also mech. equip.) March 19; school, Max Bass, N. D., March 19; Store and office building, Jamestown, N. D., March 20; library, Graceville, Minn., March 20; Lincoln school, St. Cloud, Minn., (also mech. equip.), March 22; post office remodeling, Des Moines, Iowa, March 23; power house, state reformatory, steel roof, etc., March 23; school, Madina, N. D., March 29; Pierre Indian school, S. D., March 30; store and office building, Fargo, N. D., March 30; armory, Madison, Minn.; theater, Madison, S. D.; elevator building, for the Fruen Cereal Co.; hospital, Minot, N. D.; school, Willow City, N. D., April 13; Independence school, (bids rejected), new bids March 23.

Bids in: school addition, Jamestown, N. D.; hotel, Maple Lake, Minn.; bank, Ambrose, N. D.; store, Minot, N. D., Swen Olson Minot, N. D.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### TURNER WINS A POINT.

C. A. P. Turner, of Minneapolis, has won a point in the litigation over his mushroom system of reinforcing in flat slab construction. The United States Court of Appeals, eighth circuit has granted a hearing on his petition to reopen the case of Drum vs. Turner for the introduction of new evidence. Reports which have gone out that a final decree has been entered therefore seem subject to correction in this respect, viz., that the court is receiving argument and evidence for the introduction of new evidence. This willingness on the part of the court is regarded as a good indication of more important further favorable results.

It is announced that the Libby interests have withdrawn from the firm of Libby & Nelson Co., bridge and building construction, Temple Court, Minneapolis, and that the business will be continued by the vice president and secretary of the aforesaid company, under the name of N. W. & W. A. Nelson Co., Temple Court.

The business of the Twin City Flexotile Floor Co. and that of the National Floor Co. is now handled by the National Floor Co. which is maintaining for the present the office at 607 Phoenix building. F. A. Boeye who has taken charge of the business here, has also western territory, including western Wisconsin and states west of the Mississippi. The company handles in addition to Flexotile, mastic floors, mineral rubber, asbestos floors; also takes contracts for water proofing and for tunnel lining. New and larger offices are to be leased soon.

Walter Blake, general contractor, Appleton, Wis., and N. M. Merritt, have formed the Blake Construction Co., capital \$5,000.

Daily press reports that the Homestead steel works of the Carnegie Steel Co. had started up in full on Monday, March 8, giving employment to 4,000 men, and would run full for months to come, are untrue and have done much harm, says Iron Age. The plant is operating at present to about 85 per cent, 50 of the 62 open-hearth furnaces being in operation. There is a fair amount of work ahead in plates for the Homestead works, but not much in structural material. All steel companies are increasing their operations, and from this standpoint the situation is a good deal better.

O. H. Diercks has bought an interest in the Minnesota Drainage Co., according to a statement from Baudette, Minn. Bay City, Mich. parties have held an interest. The company has a number of ditch contracts, with H. L. Bartlett of Virginia in charge of the work near Baudette.

B. K. Nusbaum, field commissioner or secretary of the National Association of Builders' Exchanges, was to be in Omaha this week and was expected to speak to the Omaha Builders' Exchange upon "Association."

The Trussed Concrete Steel Co. and the Thus-Con Laboratories are now represented in Minneapolis, having opened offices several months ago at 411-415 McKnight building. The Trussed Concrete Steel Co. report several good contracts closed within the last few weeks, among them being hy-rib for roof and suspended ceilings for the Ashworth theater, reinforcing steel and United steel sash for the L. S. Donaldson Co., garage, United Steel Underwriters' fire windows for the Gale building.

The Blake Construction Co. has been organized at Appleton, Wis., with an authorized capital of \$5,000, by Walter Blake, well known contractor and erector, and N. M. Merritt, to do a general construction and steel erection business on buildings and bridges.

G. F. Lillie, Fremont, Neb., was re-elected president of the Midwest Cement Users' Association, at the show in Omaha; C. J. Tracy, Loup City, vice president; Frank Whipperman, Omaha, secretary; directors: three years—H. R. Park, Bruning, Neb.; W. B. Farris, Albion, Neb.; George S. Diekmann, Mason City, Iowa; two years—John L. Zeidler, St. Joseph, Mo.; Frank Leeder, Sioux City, Iowa and A. P. Young, Nebraska City, Neb. A big snow storm was a feature of convention week, but 1,500 people were present the opening night. President Lillie said a concrete cottage could be built for \$700 to \$800.

The Manitowoc Clay Co., Manitowoc, Wis.; capital \$200,000; A. S. Green, Elmer Leach and H. M. Clark. The plant at Manitowoc will be enlarged and brick, tile and various other lines of clay products will be manufactured.—Rock Products.

### ARCHITECTS AND ENGINEERS.

W. E. King, of Max Toltz' staff and chairman of the public affairs committee of the St. Paul Society of Civil Engineers, wrote a public letter explaining a recent act of the society, as follows, in the News: The investigation asked for by the Civil Engineers' society of St. Paul, as to the reasons for the employment of an outside engineer to investigate the water supply should not be considered in any way as a criticism of the gentleman selected to do this work, nor necessarily as a criticism of the water board. During recent years there have been many instances in which the city government and others have selected outside engineers and architects to do important work which could have been done equally well by local men. So far as the committee knows, no investigation was made by the water board to determine whether the particular work in question could have been properly done, in whole or in part, by local engineers and the purpose of the investigation asked for is to determine why local engineers were not given an opportunity to present their qualifications.

At the annual meeting of the South Carolina Association of Architects, held at Columbia, S. C., recently, a bill defining the qualifications of an architect, and requiring an examination and license to practice in the state was unanimously endorsed, says Engineering Record. A committee was appointed, composed of two of its members, to present the bill to the legislature.

Elson-Williams Construction Co., engineers and contractors, at 830 Hennepin av., have received numerous commissions this spring.

J. P. Eisentraut, architect, Rapid City, S. D., has opened architectural offices in the Elks' building, in Rapid City, and will devote all of his time again to the practice of architecture. He has been devoting his time for three years to the management of the sandstone quarries at Hot Springs, S. D. He formerly practiced architecture in Kansas City and Sioux City.

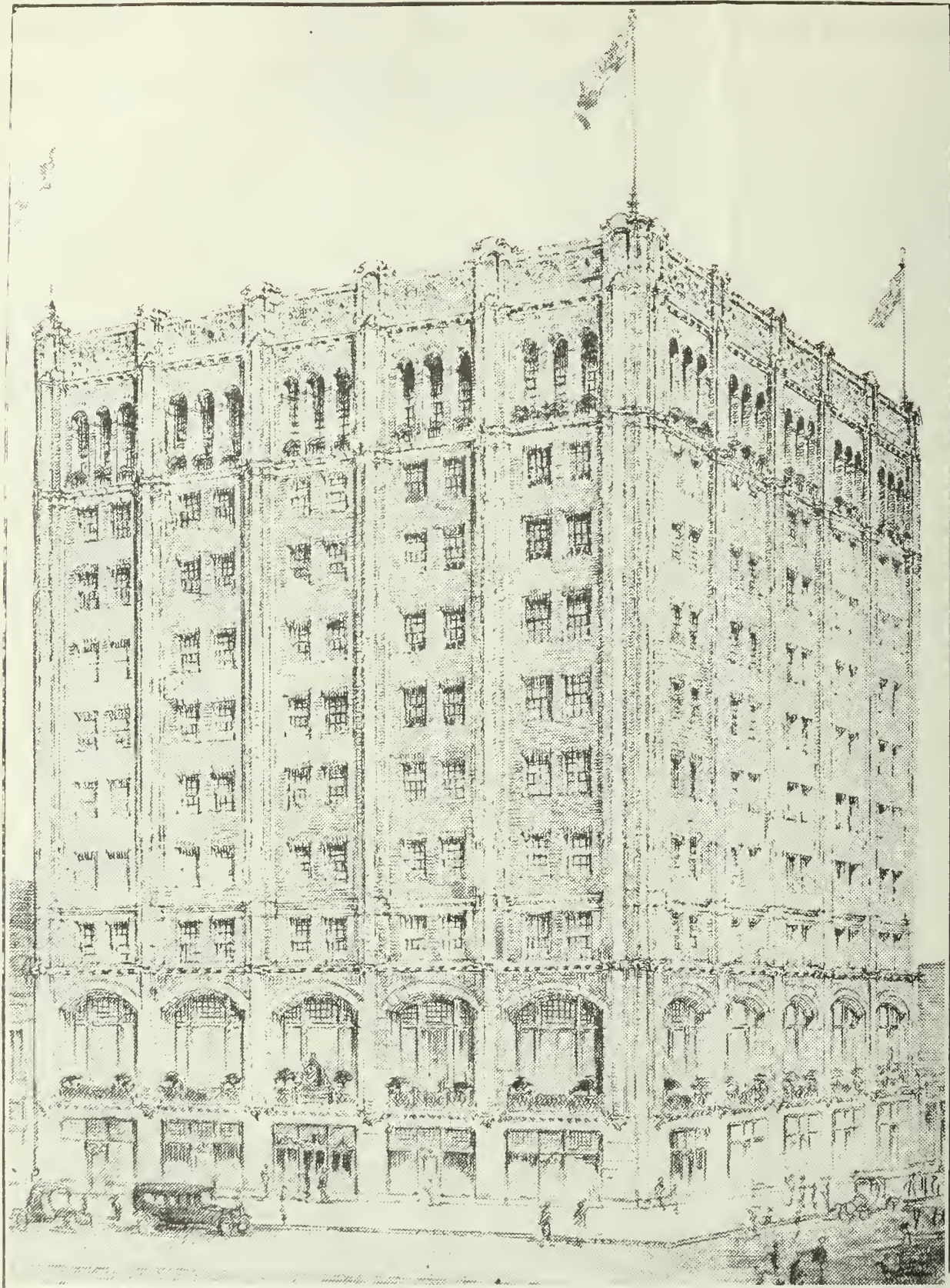
### NEW ENGINEERING BUREAU.

A great many persons in engineering and contracting circles were interested in the announcement in the Improvement Bulletin last week that L. W. Rundlett, for more than twenty years city engineer and public works commissioner of St. Paul, had returned to his native land, after several years in the Canadian northwest, and opened an office in St. Paul. Mr. Rundlett as consulting engineer, and C. G. Moore, municipal engineer, have formed an organization under the name of General Engineering Bureau, at 696 Endicott building, and are prepared to undertake the work of civil, mechanical, electrical and structural engineering for municipalities or private individuals and corporations.

Mr. Rundlett is a member of the American Society of Civil Engineers and for several years was city engineer of Moose Jaw. He has also had an extensive practice as a consulting engineer in the design of municipal work and making valuations on the same. Mr. Moore received his technical education at the University of Wisconsin, and has had nine years of practical experience as a railroad engineer, as city engineer of Eau Claire, and as a municipal contractor. They are prepared to furnish estimates of cost, plans and specifications and supervision of construction for all classes of engineering work. Particular attention will be given to municipal work, including bridges, water works systems, sewers, paving and road construction. The Bureau will also furnish competent inspectors for this work, and make laboratory tests and reports on the chemical and physical properties of cement; will assume the entire charge of any engineering enterprise, or to act in a consulting capacity, co-operating with local or supervising engineers.

James Shakman, formerly assistant chief chemist, Bureau of Streets Laboratory, Chicago, has joined the staff of Walter H. Flood, consulting chemical engineer, 326 River st., Chicago, and has assumed the direction of the road materials laboratory, which has recently been considerably enlarged. Mr. Shakman is a graduate chemical engineer, having received his degree from Armour Institute of Technology and has had long experience in this line of work.





NEW ST. PAUL ATHLETIC CLUB BUILDING. PLANS BY A. H. STEM, ARCHITECT, ST. PAUL.

Site Just Purchased on a Downtown Corner.

**BUSINESS FIRMS INCORPORATED.**

Minn., Red Lake Falls—Terrebonne Milling Co., \$25,000; D. C. Kankee, Louis Perrdault, Jos. St. Morie.

Minn., Minneapolis—Colburn-Murray Brick Co., \$25,000; R. R. Colburn, T. J. Murray, John Moher.

Minn., Minneapolis—Dennlson Tile Works, \$50,000; A. H. Dennlson, A. R. Kitts, W. L. Potter.

Minn., Minneapolis—Richardson Grain Separator Co., \$150,000; Clarence T. Thorbus, Chas. A. Eaton, Chas. F. Keyes.

Minn., Minneapolis—Adeelchew Co., \$10,000; Ida M. Elliott, Adalphi Paley, Hertha A. Palchow, Jos. M. Elliott.

Minn., St. Cloud—Thielman Hardware Co., \$50,000, Frank J. Thielman, Geo. F. Thielman, Julia A. Thielman, Mary L. Thielman, Harry G. Ziebel and Adam Prem.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.  
Phones: N. W. 3902. T.-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

J. S. Pomeroy, 127 Clifton av., alterations and repairs to frame dwl.; address owner, Security Natl. Bank.....	5,000
Carl A. Knoff, 3741 S. Colfax av., 1½-story plaster veneer dwl.; Albert Volp, builder; address owner, 3641 28th av. S.....	2,500
Mrs. Anna T. Anderson, 3652 S. Lyndale av., 2-story frame veneer flats; address owner.....	7,500
Peters Home Building Co., 2655 N. Newton av., 1-story frame dwl.; Peters Home Bldg. Co., builders; address owners, 654 McKnight bldg.....	2,500
Peters Home Building Co., 4641 S. Colfax av., 1-story plaster veneer dwl.; Peters Home Building Co., builders; address owners, 654 McKnight bldg.....	2,000
American Cons. Co. owners and builders, several 1-story frame dwls; address owners, 302 Andrus bldg.....	6,550
Brickelhaupt & Fuller, 1411 Hennepin av., 1-story concrete block addition to rear of garage; address owner.....	3,600
C. W. Lundquist Co., 712 15th av. NE., 1-story iron clad warehouse, rear; address owner, 1418 Adams.....	1,000
Irwin Dick Co., 2215 S. Irving, 2-story plaster veneer duplex; address builder, 429 Plymouth bldg.....	10,000
Robt. Simpson and L. H. Johnson, 910-12 Hawthorne av., brick addition to front of dwl.; address owner.....	4,500
Henry A. Kennedy, 11-21 E. Lake st., brick stores and flats, first floor reinforced concrete; address owner, 3005 Oakland av. ....	75,000
Carl Hemberson, 354 Pierce st. NE., 1½-story frame dwl.; address owner, Franklin Ave. Investment Co.....	1,500
Henry J. Schwarg, 3121 32d av. S., 1½-story frame dwl.; address owner .....	2,200
Miss Caroline Herslett, 3945 13th av. S., 1½-story plaster veneer dwl.; address builder, 3840 Bloomington av.....	2,500
Gabriel Amundson, 3712 16th av. S., 1½-story frame dwl.; address owner, 3921 14th av. S.....	2,000
Chas. Peterson, 3523 24th av. S., 1-story frame dwl.; address owner, 3452 17th av. S.....	1,350
John Mirsky, 3505 26th av. S., 1-story frame dwl.; address owner .....	1,000
Geo. G. Josephine and H. L. Benz, 408-14 Hennepin av., changing store front; address owner, 218 Hennepin av.....	2,000
Everett E. Addy, 700 W. 46th st., 1½-story plaster veneer dwl.; address owner, 4800 Lyndale av. S.....	4,500
Everett E. Addy, 706 W. 46th st., 1½-story frame dwl.; address owner, 4800 Lyndale av. S.....	3,500
Everett E. Addy, 710 W. 46th st., 1½-story frame dwl.; address owner, 4800 Lyndale av. S.....	2,500
Andrew Hagman, 3016 N. 6th st., 1½-story frame dwl.; address owner, 3017 Washington av. N.....	1,800
Minneapolis Steel & Machinery Co., 29th st. (extended) near 24th (extended), 1-story brick, steel and tile addition to power house; address owner.....	1,500
J. R. Addy, 5111 40th av. S., 1½-story plaster veneer dwl.; address owner, 825 Metropolitan Life building.....	1,200
Dorance D. Greer, 4300 E. Lake st., 1-story plaster veneer store; address owner, 2920 44th av. S.....	1,250
Anton Odden and H. R. Ledahl, 4132 Snelling av., 1½-story frame dwl.; address owner, 4100 40th av. S.....	1,500
Wm. Lundeen, 1529 S. 9th st., rear porch and alterations, concrete block foundation under dwl. moved in; 2323 27th av. S. ....	1,300
Robt. Simpson and L. H. Johnson, 910-12 Hawthorne av., brick addition to front of dwl.; address owner.....	4,500
Adam Kuharsky, 635-37 4th st. NE., 2-story brick veneer duplex; address owner, 1403 NE. Washington.....	4,850
American Construction Co., 3647 N. 3d st., 1-story plaster veneer dwl.; address owner, 3544 Colfax av. S.....	2,000
F. W. Hallberg, 321 W. 48th st., 1-story plaster veneer store; address owner, 1225 E. 35th .....	2,800
Nick Shaun, 359 Johnson st. NE., 1-story frame dwl.; address owner .....	1,500
Curtis M. Fitch, 5114 S. Lyndale av., 2-story plaster veneer dwl., with fireproof garage attached to rear; 1518 Linden av. ....	5,000
Alexander Carlson, 3713 27th av. S., 1-story frame dwl.; address owner .....	1,700
John Hemsey, 2633 18th av. S., 1½-story frame dwl.; address owner, 2628 15th av. S.....	2,900
Mrs. Thomas Lily, 21-27 W. 14th st., 3-story brick apartments (34); address owner.....	40,000

\*Important construction news came to light this week which indicates that there will be a great deal of activity in Minneapolis after the spring weather actually arrives. One owner, Woodbury F. Andrews, 432 SE. 4th, capitalist, and owner of numerous large buildings, including warehouses, business blocks, and the new corner improvement at Oak and S. E. Washington av., is credited with three large enterprises: Business building, southwest corner 6th av. and 4th st., 165x132; 5th av. S. and 5th to 6th sts., 157x165; 6th st. between 4th and 5th avs. S., 44x165. Each of these buildings it is believed are for tenants already secured. Being in the fire

limits district and the rapidly growing commercial section of S. 4th, 5th and 6th sts., will be modern, well built structures. Another building in this neighborhood to be started soon is the new home of Swan J. Turnblad's Swedish paper, "The Posten," at 6th av. S. and 7th st. This will be an office building, modern and fireproof. Details will be announced later.

Bertrand & Chamberlain, architects, N. W. Bank building, will have plans ready next week, for the modern laundry plant, 12th and Marquette, for the Nevins Co., 6th and Hennepin, 3-story, brick, reinforced concrete, plate glass front, steam heat, figures taken by architects.

Madsen Brothers, general contractors, Plymouth building, for the parochial school, St. Stephen's parish, Clinton and 22d, have awarded the cut stone contract to the O'Brien Cut Stone Co.; reinforcing steel to Paul J. Kalman, St. Paul; structural steel, to Minneapolis Steel & Machinery Co.; Madsen Brothers have the contract for the modern apartment building, 6th and Summit, St. Paul, 18-family, 3-story, for Teresa Miller; plans by Perry Crosier, architect, Plymouth building.

F. E. Halden, architect, Kasota block, has furnished plans for a commercial garage at Gibbon, Minn., for Johnson & Johnson; brick, 2-story and 1-story, reinforced concrete, 50x140, plumbing, heating, wiring, plate glass front, Carey roof, wash room; owners will take figures; plastered steel ceilings; official advertisement in the Improvement Bulletin this week.

\*Lindstrom & Almars, architects, Auditorium block, have prepared plans for a four-flat, 37th and Lyndale, for Peter Anderson, 535 Girard; plaster veneer, hot water heat, four boilers, modern; owner builds; also plans for a 3-story, brick flat building, nineteen apartments, 14th and Chicago, for C. E. Ashworth, Andrus building; steam heat, all modern, Kewanee garbage burner and auxiliary heater, flexo-tile bath floors; plans out; owner builds.

\*Lindstrom & Almars, architects, Auditorium block, are preparing plans for the store and flat building for Harry A. Kennedy, 3005 Oakland, on site of rink, Nicollet and Lake, 124x80, 6-story, thirty-two apartments, 3-story, brick and stone, fireproof first floor, plate glass fronts, Forman & Ford set; barber shop and bowling alley in basement, Berger steel ceilings and flexo-tile floors, hardwood finish, gas stoves, ice boxes, steam heat; contract not let.

\*C. E. Bell, architect, Security Bank building, has awarded the contract for steel, 500 tons, in Union Mission building, 2d and Hennepin, to Crown Iron Works, at \$25,582. Other bids by Minneapolis Steel & Machinery Co., Avery Steel Co., James Leck and American Bridge. Contract awarded for remodeling old Pence opera house building, first floor, to Brin Glass Co., for glass and metal frames; Aaron Carlson, mill work.

\*Lindstrom & Almars, architects, Auditorium block, have prepared plans for a second flat building for Mrs. Thomas Lilly, 143 E. 17th st., at Vine and 14th; thirty-four apartments, kitchenettes, 2-story, brick and stone, steam heat, modern, Kewanee garbage burner and auxiliary heater, flexo-tile floors in baths and kitchens; plans out; owner builds; day work.

John A. Ecklund, 4054 Blaisdell, has furnished plans and will build for Curtis M. Fitch, a modern residence with garage attached, at 5114 S. Lyndale; 2-story, plaster veneer, 30x26, hot water heat, tile bath, mantel, sun-room sleeping porch, \$5,000.

Power Engineering Co., Corn Exchange, is completing plans and specifications for improvements by the city of Granite Falls, Minn., in the hydro-electric plant there; will purchase new generator and governor; concrete work, long diversion wall, coffer dam, excavation, surveys two or three miles back, installation of hydro electric equipment to be completed; may raise dam 6 feet; spring work.

\*Rose & Harris, engineers, Auditorium block, have completed mechanical plans for the sanitarium at Bemidji, the addition to the Johnson school, Minneapolis; and are working on mechanical plans for the sanitarium to be built at Worthington, Minn.; also will prepare plans for a vacuum cleaner plant in the office building of Minneapolis Threshing Machine Co., Hopkins, Minn.

Elson-Williams Co., engineers and contractors, 830 Hennepin, who have the contract for the Sikes blocks, 9th av. S.



# PROPOSAL ADVERTISING FOR BIDS

## PROFESSIONAL DIRECTORY

### ENGINEERS

**L. P. WOLFF**, Consulting Engineer,  
M. Am. Soc. C. E.  
1000-1003 Germania Life Bldg., St. Paul.  
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Sykes Block, Minneapolis

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all classes and nationalities, any number,  
also mechanics, tradesmen, etc. No charge  
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men. Your patronage solicited. Phone, write  
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S. Canal St., Chicago; Bell Phone Franklin  
4529. We are also boarding camp contract-  
ors—complete outfits furnished.

## Proposal Index

Bids Close	See Imp. Bulletin Dated
Mar. 20. Library, Graceville, Minn.	Mar. 6
Mar. 22. Ventilating and Pl., St. Cloud, Minn.	Feb. 27
Mar. 22. Office Building, Austin, Minn.	Mar. 13
Mar. 23. Roofing, Steel, etc., St. Cloud, Minn.	Mar. 13
Mar. 23. Rural highway, Winona, Minn.	Feb. 27
Mar. 23. Theater and Store, Lu- verne, Minn.	Mar. 6
Mar. 25. Church, Valley City, N. D.	Mar. 13
Mar. 29. Church, Redwood Falls, Minn.	Mar. 13
Mar. 30. Ind. School, Pierre, S. D.	Mar. 6
April 5. City Hall, Ames, Iowa	Mar. 13
April 5. Garage, Gibbon, Minn.	Mar. 20
April 5. School, Kenyon, Minn.	Mar. 20
April 7. Bridges, Sibley, Iowa	Mar. 13
April 7. Bridges, New Hampton, Iowa	Mar. 6
April 13. School, Willow City, N. D.	Mar. 13
April 15. School, Lamberton, Minn.	Mar. 20

OFFICIAL ADVERTISEMENTS for pro-  
posals will be published in this department  
on receipt of copy with order from author-  
ized official, building committee, architect or  
engineer.

**RATE:** 15c per line each insertion. No  
discounts allowed. Several insertions are  
customary to insure full and fair competi-  
tion.

### NOTICE TO CONTRACTORS.

School, Lamberton, Minn.

Sealed proposals will be received by  
the Board of Education, District No. 31,  
Redwood county, Lamberton, Minnesota,  
on or before 8 p. m., April 5, 1915, at the  
Auditorium of the Old High School Build-  
ing. All bids to be addressed to the  
Clerk. Bids for the erection and com-  
pletion of a new school building, also in-  
stallation of the heating, plumbing, ven-  
tilation, for the new school building, ac-  
cording to plans and specifications by  
Kirby T. Snyder, Architect, 643 Plymouth  
Building, Minneapolis, Minnesota. Plans  
may be viewed at the office of the Clerk  
and at the office of the Architect. Con-  
tractors wishing plans for their exclusive  
use may obtain same from the Architect  
by paying the cost of duplication.

A deposit of \$25.00 on all plans taken  
out of the office, same to be returned  
when the plans are returned to the Arch-  
itect.

A certified check of 3 per cent of the  
bid to accompany each proposal. The  
Board reserves the right to reject any  
or all bids.

(Signed.) **ALBERT H. ENERSEN**,  
Clerk, District No. 31, Redwood Co.  
Lamberton, Minnesota.

(Continued on page 14.)

## PROFESSIONAL DIRECTORY

### ENGINEERS

### OSCAR CLAUSSEN ENGINEERING COMPANY

Consulting Engineers.  
Engineering Experts to Municipalities.  
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### CHARLES L. PILLSBURY

CONSULTING ENGINEER.  
Guaranty Building, Minneapolis.

### POWER ENGINEERING CO.

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GRADE POWER AND

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ST. PAUL

**WM. B. JOYCE & CO.**

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MINNEAPOLIS

NORTHWESTERN MANAGERS

## NATIONAL SURETY COMPANY OF NEW YORK.

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and Washington, are also engineers for the three large modern residences being built by Emery Mapes, Cream of Wheat Co., on Lake of the Isles.

Chas. L. Pillsbury, engineer, Metropolitan block, will have plans and specifications ready this week for the mechanical details of call house D, St. Cloud reformatory; C. H. Johnston, architect, St. Paul.

Fire damaged the old Colony building, brick, 2-story, north west corner 4th st. and 4th av. S., will be repaired at once; Edmund G. Walton, 320 Nicollet, owner; insurance, \$10,000.

Figures submitted by city engineer, show municipal ice plant would cost, \$145,000; \$500,000 bonds voted for, three plants may be built.

C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a bank building, at Lester Prairie, Minn., for the First State Bank, J. DuToit, president; 1-story, brick, 27x46, tile floors, steam heat, electric light, bank fixtures, vault; owner will let work.

C. S. Sedgwick, architect, Lumber Exchange, has furnished plans for a modern residence at Lebanon, Kans., for C. B. Winnegar, 2-story brick, modern, hot water heat, mantel, tile bath, \$6,000; also plans for a residence at Eldora, Iowa, for H. E. Moffett, 37x31, frame, stucco, hot water heat, modern, mantel, glazed porch.

C. S. Sedgwick, architect, Lumber Exchange, has prepared plans for enlarging and remodeling summer residence of Geo. Orde, Scandinavian American Bank, at Orono, Minnetonka; frame, cement, exterior, shingle roof, and shingle sides.

C. S. Sedgwick, architect, Lumber Exchange, is preparing plans for a new Jones hall, Windom college, Montevideo, Minn., after fire; enlarged 3d story added, fireproof, asbestos shingle roof, gymnasium, showers and lockers, main college building, \$16,000; also plans in preparation for a new ladies' hall, 44x80, 3-story, fireproof, dormitory, dining hall in finished basement, gymnasium, lockers, showers, steam heat, asbestos shingle roof; plans out in May; \$25,000; owner takes figures; Rev. J. H. Morley, president.

Contract awarded to Splady, Albee & Smith, for the Lathrop-Kemp ice cream plant, Royalston and Holden st.; plans by Chas. A. Berger; refrigerators; engineer and architect, 811 Sykes block; owner, 222 5th st. N.

A frame church will be built by the Minneapolis Lutheran Mission for the deaf, at 22d av. N. and Girard; cost \$6,000; 28x56; finished basement; 7-room frame house for pastor, Rev. J. L. Saloner, 2115 Elliott av.

Union electric station for Luce Line and Dan Patch, may be built at 7th st. and 2d av. N.; W. L. Luce, care Electric Short Line, Phoenix building.

Maurice Schumacher has the general contract for the improvement at the residence of Robt. Simpson, 910 Hawthorne; brick addition; \$4,500.

Fire destroyed Cedar Lake Ice Co. storage house and barn, Water and Marshall st. NE.; loss about \$5,000.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday

### Building Permits.

Flora Zachuson, 504 Brainerd, 1½-story frame dwl., 1298 Burr; Edward Zachuson, builder.....	2,600
J. H. Hohenthener, 1½-story frame dwl., Rondo near Milton; Jos. M. Baltuff Bldg. Co., builder.....	2,400
Mrs. Geo. F. Milton, 713 New York Life building, 1½-story frame and stucco dwl., Wheeler near Summit; Rydeen & Haney, builders.....	3,000
Mrs. V. Pearson, 1185 Burr, 1½-story frame dwl., Berkely near Snelling.....	2,000
O. A. Peterson, 1248 Edgerton, builder, 1½-story frame dwl., Thomas near Pascal.....	2,500
Emma Johnson, 1-story frame dwl., Thomas near Simpson; Carl Granstrom, builder.....	2,300
W. S. King, 89 E. Louisa, 1-story frame dwl., Robert near Louisa; Jos. M. Baltuff Bldg. Co., builder.....	2,600
Fridref Sward, Sandstone, Minn., 1½-story frame dwl., Hawthorne near Frank; Aug. Kenstrom, builder.....	2,000
Mrs. C. C. Brackney, alterations and repairs to dwl., 1958 Carroll; Chas. J. Johnson, builder.....	1,000
M. E. Rowe, 2116 Langford, builder, 2-story frame and stucco dwl., 2118 and 2120 Langford.....	4,000
H. Schaeffgen, 554 Hamline, builder, 1½-story frame dwl., 1237 Seminary.....	2,600
R. B. Letford, 115 E. 9th, builder, 1-story frame dwl., Blair near Kent.....	1,475
J. Boyer, 204 E. Abers, 1½-story frame dwl., Gates near Brown; J. M. Baltuff Building Co., builders.....	1,850
Charles Loveig, 2400 Bayless, 1½-story frame dwl., Langford near Gordon; J. S. Switzer, builder.....	3,000
P. E. McAllister, 1120 Thomas, builder, 1-story frame and stucco dwl., Niles near Hamline.....	2,200
J. D. Neville, 586 Simpson, builder, 2-story frame and stucco dwl., Niles near Hamline.....	2,700
W. Sandstrom, 1093 Bradley, 2-story frame duplex, Laurel near Pierce; Olson & Erickson, builders.....	5,000
Mrs. Eigermann, 71 W. George, 1½-story frame dwl., 71 George; Jos. Licha, builder.....	2,000

Daniel D. Dillon, 15 W. Congress, 1½-story frame dwl., Page near Kansas; Lamb & Shorn, builders.....	2,000
E. G. Cheyney, 2195 Carter, 2-story frame and stucco dwl., Crater near Como; D. C. Bennet, builder.....	4,800
Christ Morsing, 256 Winona, builder, 1-story frame and stucco dwl., 835 Ohio.....	2,200
F. J. Alway, 2-story frame dwl., Grantham near Doswell; W. W. Murphy & Son, builders.....	6,000
Lindstrom & Anderson, 1493 Grand, builders, 2-story frame dwl., Goodrich near Pascal.....	3,500
J. W. Martin, 600 Lawson, alterations and repairs to 2-story frame dwl., 758 Maryland; H. M. Elmer, builder.....	1,000
W. H. Dryden, 305 Newton bldg., alterations and repairs to 2-story brick apartment, 887 and 889 Snelling; Jos. J. Vanonskor, builder.....	10,000
Mannheimer Realty Co., 6-story steel and brick mercantile building, St. Peter near 6th; Minneapolis Steel & Machinery Co., builder.....	150,000
Jos. Gayer, 1-story frame dwl., Thomas near Arundel; Gust Kreuger, builder.....	1,100
Jos. Gayer, care F. Michel, 813 N. Y. Life bldg., 1-story frame dwl., Albemarle near Geranium; Gust. Kreuger, builder.....	1,200
Wm. Dumuth, 1697 Ross, 1-story frame dwl., Ross near Flandreau.....	1,200
Mrs. J. M. Lees, 609 Como-Phalen, 1-story frame dwl., Payne near Larpenteur; J. M. Lees, builder.....	1,500
Emil Carlson, 1252 Fisher, builder, 1½-story frame dwl., Maryland near Frena.....	2,500
Thomas G. Kuhn, 1076 Pleasant, builder, 1½-story frame dwl., Palace near Victoria.....	2,200
Thomas G. Kuhn, 1-story frame dwl., Palace near Victoria.....	1,600

Alfred H. Wheeler, architect, Globe building, has been selected to prepare plans for extensive remodeling and improvements in the Pipestone, Minn. State Bank bloc, for the bank; entire new banking room, beamed ceiling, marble work, terrazzo floors, tile floors, fixtures, new steel fronts, of local stone and St. Cloud granite, bank vaults, safety deposit boxes, mahogany finish, grille work, teller's cages, lavatories and toilets, marble stairway on iron stringers, prism glass transoms and sidewalk lights, barber shop with tile floor in basement, new boilers, vacuum cleaner system, private vaults for second floor, lavatories, second floor, birch finish, second floor, skylights, tile floors, steel girders and columns, direct-indirect heat, marquis, pitch and gravel roof, estimated cost \$20,000. Plans ready April 15.

Decision as to the two hotel and store buildings for M. P. Ryan, N. Y. Life building, is expected in regard to general contract March 22; plans by Mark Fitzpatrick, architect, 19 W. 9th; Schuett & Forshee, general contractors, Lowry Annex, buildings to be at 499-505 St. Peter, corner of Exchange, and 510-12 St. Peter; reinforced concrete, 10-story, steam heat, modern, fireproof, stores; 50x50, and 45x100; terra cotta, brick, granite base; standard pitch and gravel roof, vacuum cleaner system, one and two-room kitchenette apartments, baths, gas stoves, kitchen cupboards, disappearing beds, refrigerators, sanitary floors, with cove base, tile baths, electric elevators, ornamental iron, wire glass, marquises, metal store fronts, sidewalk lights, birch trim, rubble basement walls, galvanized iron cornice.

J. O. Cederberg, architect, Endicott building, is preparing plans for two more buildings. for Bethel academy, Snelling and Como; academy building plans out April 3; 112x100, brick, finished base, 3-story, modern, steam heat, from central plant, cut stone cornices, gymnasium wood and cement floors, \$60,000; dormitory plans out April 15, stucco on tile, shingle pitch roof, (may be slate), 2½-story, 66x60, dormitory for 80, modern, finished basement, \$15,000.

Alban & Lockhart were selected as architects, for the high and grade school at Miltown, Wis.; brick, reinforced concrete, hollow tile, brick walls, gypsum tile, partitions, magnesite floors, maple floors, steam heat, assembly hall for 136, slate blackboards, vacuum steam heat, fan ventilation, stone trim, prism and plate glass, private electric light plant, gymnasium lockers, showers, manual training, agri., etc.

B. W. Day, architect, with A. H. Stem, Endicott building, has furnished plans for a commercial garage, Grand and Victoria, for Bingham & Norton, brick, 1-story, concrete foundation and floor, 100x150, steel sash, seven globe ventilators, plumbing, heating wiring, three lavatories, tar and gravel roof, cast cement coping, face brick, three sides; plate glass front.

Plans for an \$8,000 Sunday school and gymnasium addition to Holman M. E. church, are being considered; to be built this summer; Rev. R. B. Tibbets, pastor.

Bids received until 2 p. m., March 31, for a frame church, Lafond between Syndicate and Hamilton avs.; Rev. M. Casey, 1259 Thomas st., pastor; plans by W. F. Keefe, architect, 304-5 American National Bank building; official call for bids in Improvement Bulletin this week.

Wm. Baumeister, contractor, Hackney block, was awarded the work of remodeling the old council chamber; marble contract to C. H. Young & Co.; structural steel to St. Paul Foundry; hollow tile, Corning Brick Co., Ryan Annex; Alden & Harris, architects, Commerce building.

A model 1-story, 8-room school, is to be built in the Ran-  
(Continued on page 17.)



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT

ASSETS \$3,514,125.50

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The Hood & Matschke Co.

GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.

ASSETS \$4,882,371.79

MINNEAPOLIS, MINNESOTA

### Brick of Quality.

#### Dickinson Brick

ALL KINDS

Call for Samples and Prices

DICKINSON Fire and Pressed BRICK CO.

Dickinson, N. D.

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Manufacturer of

#### CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
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#### DRAUGHTSMEN'S BLOUSES

\$1.50

(FRENCH SMOCKS)

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Sent prepaid on receipt of  
State Height and Weight

E. Falkeuhainer, 25 W. 42d St., New York

#### PROPOSAL FOR BIDS FOR CITY HALL Ames, Iowa.

Sealed bids will be received by A. B. Maxwell, City Clerk, of the City of Ames, Iowa, until 7 o'clock p. m., April 5, 1915, for the erection of a two-story and basement City Hall building, including the heating, plumbing and electric wiring, to be constructed according to plans and specifications prepared by Liebbe, Nourse & Rasmussen, Architects, 514 Utica Building, Des Moines, Iowa.

Separate bids will be received for the heating, plumbing and electric wiring.

Each bid must be accompanied with a certified check, in a separate envelope, for two per cent of the amount of the bid, said check to be drawn on some known responsible bank, and made payable to the order of the City Treasurer of the City of Ames, as a guarantee that

the successful bidder will enter into a contract with the City of Ames within ten days after the said contracts have been approved by the City Council of said city, and have been adopted by a majority vote of the electors of said City of Ames, Iowa, at an election called for that purpose, and the work to be completed according to the plans and specifications prepared therefore by said architects and give a bond approved by the City Council in the sum of 50 per cent of the contract price, as a guarantee that he will complete his contract according to said plans and specifications and pay all bills for material and labor incurred in the completion thereof.

Plans and specifications may be had from the City Clerk or the Architects after March 15, 1915, by depositing \$10.00 as a guarantee that the plans and specifications will be returned in good condition. The right is reserved to reject any and all bids.

Published by authority of the City Council of the City of Ames, Iowa.

A. B. MAXWELL,

City Clerk.

#### SCHOOL BUILDING.

Willow City, N. D.

The undersigned hereby gives notice that sealed proposals for the erection of a one room and half basement school building, including all labor and material, will be received by Winifred Erdman, clerk of Willow Creek School District No. 6, until the hour of 2:00 P. M. on the 13th day of April, 1915.

All bids must be in strict accordance with the plans and specifications prepared by Ed. White of Minnall, N. D., which may be seen at his office, at the office of Winifred Erdman, clerk, Willow City, N. D., or the "Towner News-Tribune" office Towner, N. D., or the Builders' and Traders' Exchange, Minneapolis.

A certified check for 5 per cent of the bid payable to the order of Chas. F. Getzlaff, chairman Willow City, N. D., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satis-

factory bond in double the amount of the contract price for the faithful performance of the contract. The right is reserved to reject any and all bids.

WINIFRED ERDMAN, Clerk.

Place of letting, seven miles west of Willow City, at the home of Adolph Erdman.

Date, April 13, 1915.

PROPOSALS FOR BRICK MESS HALL. Department of the Interior, Office of Indian Affairs, Washington, D. C., Feb. 26, 1915, sealed proposals, plainly marked on the outside of the sealed envelope; "Proposals for Brick Mess Hall, Pierre School, South Dakota," and addressed to the Commissioner of Indian Affairs, Washington, D. C., will be received at the Indian Office until 2 o'clock p. m., Mar. 30, 1915, for furnishing materials and labor for the construction of a brick mess hall at the Pierre Indian School, Pierre, South Dakota, in strict accordance with the plans, specifications and instructions to bidders which may be examined at the Indian Office, the U. S. Indian Warehouses at Chicago, Ill., St. Louis, Mo., and Omaha, Nebr., the Builders and Traders Exchange at St. Paul, Minn., at the school, and in the office of the newspaper in which this advertisement appears. For further information apply to the Superintendent of the Pierre Indian School, Pierre, South Dakota. Cato Sells, Commissioner.

(Continued on page 16.)

## ✠ EDINGER ✠

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"JUST NOW"  
Let  
"EDINGER"  
Cedar Rapids, Iowa  
figure on that job of  
**CUT STONE**  
Plans sent for Estimate  
Returned promptly.

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Send us your Plans. Our figures cost nothing, and You Will Save Money.

## Don't Make a Mistake!

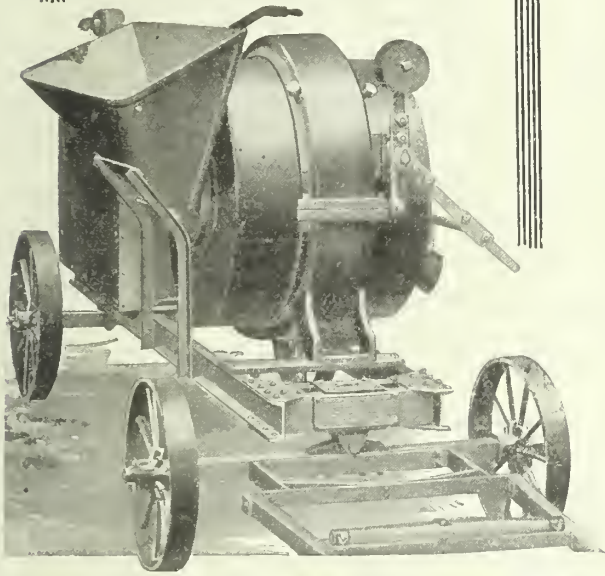
You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

**ST. PAUL ROOFING, CORNICE  
and Ornament Co.**  
ST. PAUL, MINN.



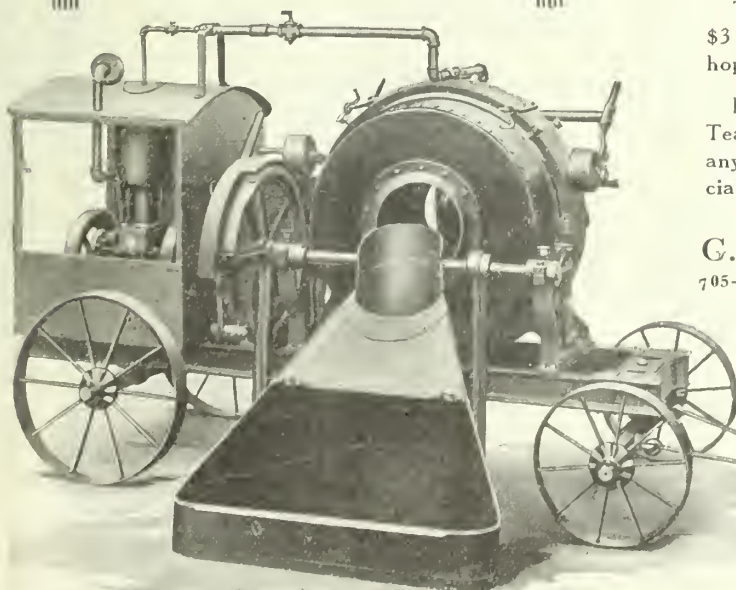


### \$246 F. O. B. Factory

Smith Mixerette on steel truck, with 2 H. P. gasoline engine, and steel house. Mixer equipped with waist high, gated batch charging hopper.

Smith Mixerette with ground level power charger. This loader is gear driven. It lifts easily and rapidly without straining the mixer.

### \$315 F. O. B. Factory



# Just Out

## The Brand New Smith Mixerette

YOU, Mr. Contracting Public, demand a light, portable and inexpensive mixer for the small concrete work—a mixer that will hold a five-foot batch of loose material or three feet of mixed concrete.

The New Smith Mixerette hits the very center of this demand. It has all the above features and with them embodies **Smith Quality**—the same high standards that were in evidence in the **Big Smith Mixers** that achieved world renown at Keokuk and Hauser Lake, on the Sea Wall and Causeway at Galveston, on the Key West Extension of the Florida East Coast Railway, on the New York Aqueduct, out at Arrow-rock, and on a multitude of other famous projects.

This machine has two improvements which are bound to make it famous. The main drive ring and driving pinion are entirely enclosed and protected against dirt and dust. The big gear ring encircling the drum fits snugly into the outer casing, the machined surfaces forming a perfectly true sliding bearing. A constant supply of grease keeps this bearing clean and cool at all times.

The other big feature is the "rope-less" power loader. Being gear driven, the skip lifts quickly and smoothly. Having no hoisting cable or sheaves, the twisting, jerking motion common to loaders of the pivot type, is entirely eliminated.

The price of this machine, as illustrated, is only \$315.00. Equipped with low-down, gated batch hopper in place of the power charger, \$246.00.

Fill in your name and address in the space below. Tear out the whole ad. and mail to us, and without any obligation on your part, we'll send you our special proposal and Mixerette Booklet No. 106-A.

G. E. Ingersoll Co. / Raymer Hdwe. Co.  
705-A Pioneer Press Building / 52-A East 5th St.  
ST. PAUL, MINN. / ST. PAUL, MINN.

MANUFACTURED BY  
**The T. L. SMITH CO.**

3137-A Hadley Street  
MILWAUKEE, WIS.



**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

## JOBS

### ROLLER WANTED.

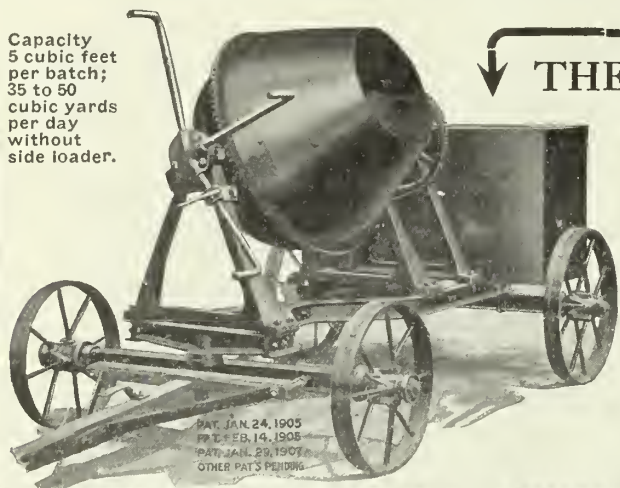
Wanted—5- or 6-ton tandem roller. Address, C. F. LYTLE, Sioux City, Iowa.

Wanted:—Carpenter foreman or superintendent with experience in church construction; address R. J. Stark, 1103 1st Ave. W., Cedar Rapids, Iowa.

### POSITION WANTED.

Wanted: A position as superintendent or carpenter foreman on structural steel or reinforced concrete building. Can handle any part of the work or all if so desired. Have had nine years' experience and can furnish the best of references; care Box No. 2, Improvement Bulletin.

Capacity  
5 cubic feet  
per batch;  
35 to 50  
cubic yards  
per day  
without  
side loader.



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## Little Wonder "Five"

"The Mixer that Makes the Money"

Deserves your first consideration because it has proved its superiority with more of your brother contractors right in your own state, than any other. Ask us who and we'll put you in touch with them—then ask them why and they'll tell you it beats any mixer they ever used or heard about for quick, easy work and large dividends on investment.

Ten Days Free Trial and Satisfaction  
or We Pay the Freight

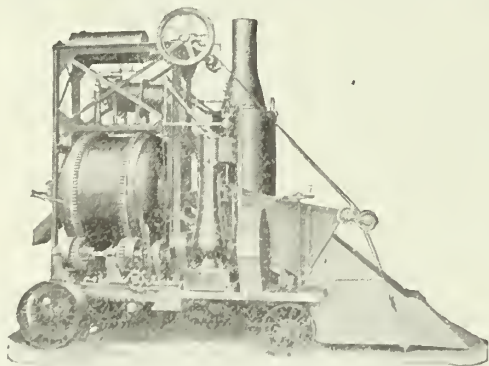
Waterloo Cement Machinery Corporation

220 Vinton Street, Waterloo, Iowa.

Hale Concrete Machinery Company

N. W. Agents, 1043 McKnight Building, Minneapolis, Minn.

## The Mixer that Proves It's Quality by It's Record



The Koehring Hot Mixer for Bituminous Pavements.

**H**OW much you must charge up to depreciation and repairs are as important questions in determining the real cost of a mixer as the initial expense.

How much of your labor cost is due to delays directly traceable to the mixer is another important item to consider when comparing initial cost.

It's the Koehring Quality Mixer that proves its dollar-earning qualities by its record of continuous service and low cost of maintenance.

Catalogue 19, the most complete Mixer Catalogue, gives details.

**KOEHRING MACHINE COMPANY, Milwaukee, Wis.**

H. B. JONES, Dist. Mgr.

350 Security Bank Building

Minneapolis, Minn.

## RAISED

Atlas Portland Cement  
was long ago raised to  
a standard, — never  
lowered to a price.



"CONCRETE FOR PERMANENCE"

826 Plymouth Bldg., Minneapolis  
N. W. Phone Nlc. 3062



**ST. PAUL—(Cont. from page 13).**

dolph district, Jefferson and Hamline, cost \$45,000; plans being prepared by City Architect C. A. Hausler.

New buildings for entire frontage 9th to 10th on Robert, are announced by Sperry Realty Co., including 7-story hotel, \$250,000; auto sales room and garage, \$50,000; 3-story business block, \$30,000; 3-story produce building, \$125,000; land recently bought by Henry L. Habighorst, 736 Goodrich; work to be started soon.

State board of control will next take bids on sanitarium for Becker and Clay counties (Moorhead), \$36,000, probably in a week or ten days; plans by A. J. Fridlund, Moorhead.

Contract awarded to Herzog Iron Works for ornamental iron, emporium addition; Buechner & Orth, architects, Schubert building.

K. F. Lott & Co. were awarded the contract for the terracotta, of the business building, for Krebsbach Bros., Adams, Minn.; plans by F. W. Kinney, architect, Minneapolis.

J. O. Cedereberg, architect, Endicott building, has furnished plans for a 4-flat, 60x36, brick veneer, 2-story, modern, \$8,000; hot water heat, owners, Peterson & Palmer, care architect, builds.

J. O. Cederberg, architect, Endicott building, will have plans out April for a modern bungalow at Mondovi, Wis., for E. H. Myers, brick fireplace, hot water heat, to be let on percentage.

E. L. Masqueray, architect, Endicott building, awarded general contract, for church at Marshall, Minn., to Herman Jeub, 127 Crystal Lake av., Minneapolis, about \$60,000, except plumbing, heating, hardware and ventilating, which will be let later.

Ralph Mather, architect, Pioneer building, has prepared plans for a suburban residence, N. Rice st., for F. J. Renler, hot water heat, plumbing, wiring, septic tank, independent water supply, trays, screened porch sleeping porch, hollow block foundation; bids in Friday March 19.

Plans for an armory at Madison, Minn., are being drawn by J. E. Lottfield, 817 Carroll st., St. Paul; 2-story, 64x100, for Company M, Madison; Atlas or equal cement; brick, tile, J. M. 3-ply asbestos roofing, modern; owner taking bids; bowling alleys, etc.

City will take bids till 10 a. m., Mar. 22, for improvements on Harriet Island buildings; check 10 per cent; Aug. Hohenstein, city purchasing agent.

C. A. Hausler, city architect, will have the plans out in 10-days for the model 1-story school in the Randolph district, \$45,000.

**MILWAUKEE, WIS.**

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Frame duplex houses will be erected in Milwaukee during 1915 as follows: Frank Wesolowski, 755 8th av., brick veneer, \$5,000; A. G. Wolf, architect; Mrs. Einar, Downer av., near Mineral st., Herbst & Hufschmidt, architects, \$6,500; John Menge, Jr., architect, for himself, Wahl av. and Wright st., \$7,000; Mrs. Guerin Farwell av., near Kenwood blvd., Fred Graf, architect, \$9,000; T. P. Kennedy, 1439 14th st., \$4,000; J. R. Bethke, 440 23d av., \$7,000; Mrs. Coughlin, 214 Oneida st., \$12,000; F. W. Andree, architect, owners' names withheld, 27th st., near Kilborn av., \$8,500; Charles Keller, architect, owner's name withheld, Farwell av., near Linwood, \$5,500; Woerhl & Kloppeich, 905 34th st., \$4,500; John Wilging, 1357 30th st., \$4,000; H. A. Kulas, architect, owner's name withheld; 7th av. near Grant st., \$5,000.

Herman W. Buemming, architect, 521 Jackson st., is preparing plans for an \$18,000 residence to be erected on Marietta av.; owner's name withheld; 2-story and basement, 44x66, brick, stone and frame; the same architect awarded the contract for plastering the new tobacco factory of C. B. Leidersdorf Tobacco Co., Milwaukee st., costing \$30,000, to Chas. Bartz and plumbing on same to O. H. Dittmer.

Walter J. Dolge, architect and builder, 1357 20th st., is planning a frame duplex costing \$5,000 for Mrs. Goodman at 712 Green field av.; a frame duplex costing \$4,300 at Auer av. and 21st st., and a \$4,000 bungalow on 22d near Chambers st.

Louis Wilke has been awarded the general contract on a \$7,000 residence on Prospect av., near Linwood av., for Geo.

(Continued on page 21.)

# A Concrete Mixer Not Built In A Factory

The Northwestern Mixer never was built in a factory.

The mere casting into metal of the ideas embodying it is the least of the work connected with its evolution.

It has taken hundreds of contractors and engineers and concrete workers of every kind throughout the world to perfect this wonderful machine—in charging—in mixing—in discharging—in its evolution.

## It Took Hundreds of Men to Write The Northwestern Mixer Book

It takes up the matter of mixers, block machines, etc.

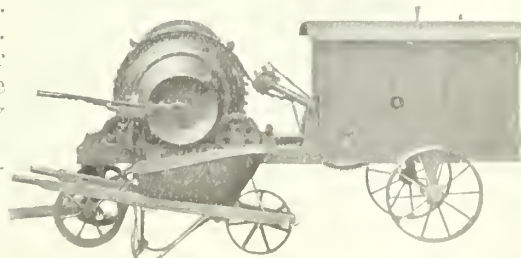
A copy of this book is yours free for the asking. Send for it today. It shows concrete machinery for almost every purpose—as well as accessories. Be posted on every possible aspect of concrete work by the concrete authorities.

The machine shown here is but one of the many illustrated and described in this book.

**Northwestern Steel & Iron Works**  
500 BALL STREET EAU CLAIRE, WIS.

Minneapolis Equipment Co., 801 Plymouth Building,  
Minneapolis, Minn.

We have compiled one of the most complete books ever gotten up on the subject of concrete mixing. It deals with every phase of the concrete question.



This is a Northwestern Mixer with a capacity of from 5 to 6 feet. It has a wonderful range of uses by both large and small contractors. It is the greatest profit maker for the greatest number of people on the market.



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE

**HAAKINSON & BEATY CO., SIOUX CITY, IOWA**

ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS

### CHURCH.

Redwood Falls, Minn

The undersigned hereby gives notice that sealed proposals for the erection of a frame church, to be erected at Bechyn, Renville County, Minn., including all labor and material, will be received by Rev. J. J. Tomek, Redwood Falls, Minn., until the hour of 2 p. m., on the 29th day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by W. F. Keefe, Architect of St. Paul, 304-5 American Bank, which may be seen at the residence of Rev. J. J. Tomek, Redwood Falls, Minn. on and after March 11, 1915, and may also be seen on application to Builders' Exchange, St. Paul.

The right is reserved to reject any or all bids.

(Signed) W. F. KEEFE,  
Architect, St. Paul.

### STEEL CAGE FOR SALE.

Carlton, Minn.

Carlton County, Minnesota, offers for sale a three cell steel cage with prisoners' corridors, lever locking device, all in first class condition. Just the thing for a village lockup or a small county. For particulars communicate with,

AUG. R. NORMAN,

County Auditor, Carlton, Minn.

Dated, March 12, 1915.

### PAVING AND CURBING AND GUTTER- ING IMPROVEMENT IN THE CITY OF EAGLE GROVE, IOWA.

Sealed proposals will be received by the City Council of the City of Eagle Grove, Iowa, until 7:30 P. M., on the 30th day of March, 1915, for the construction of 52,625 square yards of paving of one of the following kinds of paving material: Asphaltic concrete, two classes, and sheet asphalt upon a five-inch concrete base, and Portland cement concrete paving.

Also for the construction of about 33,000 feet of curb and gutter.

Contractors may bid upon more than one kind of paving upon a proposal blank to be secured from the City Clerk. A certified check must accompany bids in the amount of ten (10) per cent of the amount of the largest bid. The right is expressly reserved, as the interest of the City may appear, to reject any and all bids.

SAM MIDDLETON,

City Clerk.

City of Eagle Grove, Iowa.

### GARAGE.

Gibbon, Minnesota.

Bids will be received up to April 5th, for the building, only, and for building and furnishing of materials for a garage, 50 feet by 140 feet, 2-story, as per plans and specifications with Johnson & Johnson, Gibbon, Minn., or at F. E. Halden, Architect, Kasota Bldg., Minneapolis, Minn.

## WINNER MIXERS



FACTORY: WATERLOO, IA.

Are The Kind  
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District Manager

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Cement Tile Machinery Co.

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Minneapolis, Minn.  
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You'll find that it will  
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You'll find that it will do the work in about half the usual  
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**E. Wege Concrete Machinery Co.**

118 SOUTH SECOND ST.

LA CROSSE, WIS.

## The *Atlas* Mixer

Furnished  
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Batch  
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Capacity

### It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

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MILWAUKEE, WIS.

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Minneapolis, Minn.

Telephones: Nicollet 5293. Center 2432.



**CHURCH.**

**St. Paul, Minnesota.**

The undersigned hereby gives notice that sealed proposals for the erection of a frame church, to be erected on Lafond St. between Syndicate and Hamline Aves., St. Paul, Minn., including all labor and material, will be received by Rev. M. Casey, at 1259 Thomas St., St. Paul, Minn., until the hour of 2 P. M., on the 31st day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by W. F. Keefe, Architect, of 204-5 American Bank Bldg., which may be seen at the residence of Rev. M. Casey, 1259 Thomas St., on and after March 16, 1915.

A certified check for 2 per cent of bid, payable to the order of Rev. M. Casey, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full amount of contract, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed.)

**W. F. KEEFE.**

**STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC.**

Of The Improvement Bulletin, published weekly at Minneapolis, Minn., required by the act of August 24, 1912.

Editor—O. L. Colburn, 716 Lumber Exchange.

Managing Editor—O. L. Colburn, 716 Lumber Exchange.

Business Manager—W. F. Chapman, 716 Lumber Exchange.

Publisher—Chapin Publishing Co.

Owners: (If corporation, give names

and addresses of stockholders holding 1 per cent or more of total amount of stock.)

Name of Postoffice Address  
Mrs. V. E. Chapin, 4224 Queen av. S., Minneapolis, Minn.

Mr. R. C. Chapin, 4224 Queen av. S., Minneapolis, Minn.

Henry Deutsch, 617 Plymouth building, Minneapolis, Minn.

Known bondholders, mortgagees and other security holders, holding 1 per cent or more of the total amount of bonds, mortgages, or other securities:

None.

Average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the six months preceding the date of this statement. (This information is required from daily newspapers only.)

Sworn to and subscribed before me this 15th day of March, 1915.

(Seal.)

**W. F. CHAPMAN,**

Notary Public, Hennepin County, Minn.

(My commission expires October 14, 1918.)

**BIDS WANTED FOR SCHOOL.**

**Kenyon, Minn.**

Contractors are hereby notified that plans for the New High and Grade School to be erected at Kenyon, Minnesota, by the Independent School District No. 91, of Kenyon, can be secured at the office of Alban & Lockhart, Architects, 347 Endicott Building, St. Paul, Minnesota, by enclosing with request for plans a certified check for \$10.00 to insure prompt return of drawings. Checks will be held by architects until contractors return plans.

Bids are desired on the following items:

General Construction.

Heating and Plumbing.

Electrical Work and Fixtures.

Manual Training, Domestic Science and Gymnasium Equipment.

Bids must be delivered at the office of Dr. J. A. Gates, President of the Board, at or before 6:30 P. M., April 5, 1915, and must be plainly marked on outside of envelope, "Bids for the General Construction," or whatever it may be. Bids to be accompanied by certified checks as follows:

General Construction, 3 per cent of bid 1.

Heating and Plumbing, 5 per cent of bid 1.

Electrical Work, 10 per cent of bid 1. Bid on Equipment, 15 per cent of bid.

Certified checks will be returned at once to unsuccessful bidders and to the successful contractor upon execution of contract with bond.

It is desired that a representative of the Contractor be present at the opening of the bids.

Signed.

**INDEPENDENT SCHOOL DISTRICT NO. 91.**

**Kenyon, Minn.**

**J. A. GATES, President.**

**LUMBER USERS** write for our new price lists, including mouldings shingles, etc. A postal brings it. **KARLOT LUMBER CO.** Tacoma, Wash.

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Get all of the facts including complete information on our larger mixers, and our bulletins on concrete machinery of every description.

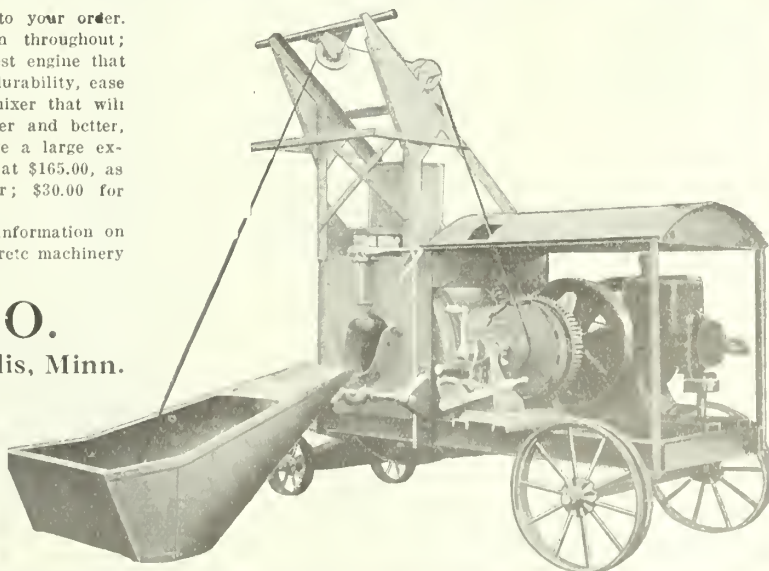
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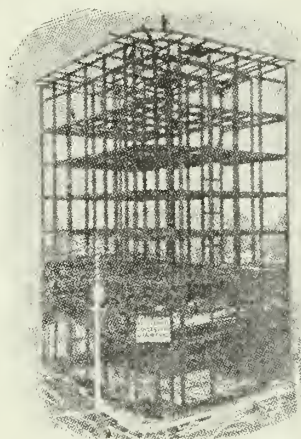
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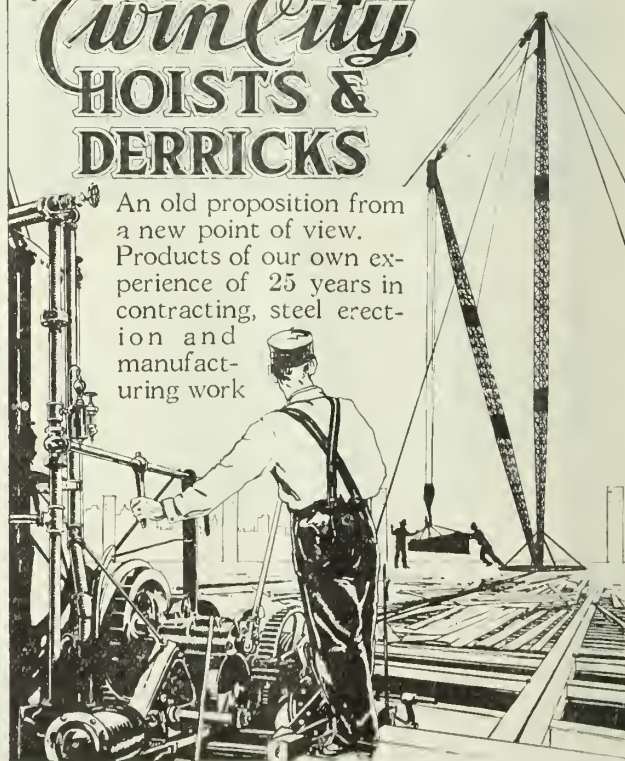
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Minneapolis, Minn.



### FOR SALE. Bemidji, Minn.

Sealed bids will be received at a meeting of the city council of Bemidji, Minn., to be held Monday, March 29, 1915, at 8 o'clock P. M., for fire team, between eight and nine years old; seventeen hands high, weight 1,600 pounds each; well matched and broke. Also one set of drop harness practically new, and one set of work harness. Must be sold on account of being replaced by motor-driven equipment.

Further information can be obtained from the undersigned.

GEO. STEIN,  
City Clerk.

### NOTICE TO CONTRACTORS. School, Medina, N. D.

Sealed proposals will be received by William F. Stege, Clerk of Guilford School District No. 3, at Medina, North Dakota, up to the hour of 1:30 o'clock, P. M. on the 29th day of March, 1915, for the complete construction of a two-story

and basement brick school building, to be erected at Medina, North Dakota, (including complete mechanical equipment for the building) all to be in strict accordance with the plans and specifications for the work, as prepared by Gilbert R. Horton, Architect. Plans on file at the Minneapolis Builders' Exchange, at the Office of the Architect in the Citizens' National Bank Building, Jamestown, North Dakota.

All proposals must be made in strict accordance with the outlined form given in the specifications, and each proposal for the general contract must be accompanied by a certified check for \$750.00, and each proposal for mechanical equipment must be accompanied by certified check for three per cent (3%) of the highest alternate bid. Checks are to be made payable to R. J. Fox, President of the Board, and said checks to be forfeited to the Board in event of the failure of the accepted bidders to enter into satisfactory bonds as required by law.

The accepted bidders will be required to furnish bonds as required by the laws

of the State of North Dakota, and the same must be satisfactory to said School Board.

The Board reserves the right to reject any or all bids.

By order of the School Board, Guilford School District No. 3.

(Signed.) WILLIAM F. STEGE, Clerk.

### Bricklayers' Foreman Position Wanted.

Wanted: Position as Bricklayer Foreman. I have had 16 years of experience and I am capable of handling big work. Will send references on request. Please write me at once.

Address Box 37, Improvement Bulletin.

### FOR SALE AT A BARGAIN.

One 300-H. P. Twin City Cross Compound Corliss Girder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.

### MILWAUKEE—(Cont. from page 17).

Schley, Caswell block; Mr. Schley will also build a \$6,500 residence on Hackett av., near Kenwood blvd.

H. J. Rotier, architect, 813 Goldsmith building, is taking bids on a \$5,000 residence for Chas. McCullough on Warren av., Wauwatosa.

A. E. Swager, architect, 610 Majestic building, will close figures March 22, on a 6-apartment building for E. O. Olson on Stowell av., near Park pl.; solid brick, 3-story, 45x81; steam heating.

M. C. Vierheilg, architect, is preparing plans for a \$7,000, brick veneer residence, 34x36, on the west side; owner's name withheld.

R. E. Oberst, architect, 353 National av., is taking bids on an \$18,000 furniture store building, owner's name withheld, on Center st. near Fratney; reinforced concrete, tile curtain walls, face brick, 2-story and basement, 45x120 feet; previously noted; the same architect is awarding final contracts on store and flat costing \$12,000, for J. G. Hochherz at 1054 Lincoln av.

C. W. Valentine, architect, 428 Jefferson st., will close bids March 22, on \$5,000 residence for M. H. Lynch on Farwell av., near Linwood av. and the \$6,000 residence and garage for Michael Rolfe in East Milwaukee.

The Badger Architects, 629 Walnut st., will close bids Saturday on a frame duplex at Frederick av. and Kenwood blvd., costing \$7,500, and a bungalow at Concordia av. and 11th st.; costing, \$4,500.

Carl Barkhausen, architect, 121 Wisconsin st., is preparing plans for an \$8,000 brick veneer residence, 36x40, and a concrete garage, to be built at Whitewater, Wis., for E. W. Vette. The same architect awarded following final contracts on residence for Mrs. C. Hinkel at Hackett av. and Linwood; carpenter, August Holstein; cut stone, Meyers Bros.; plumbing, O. P. Zimmermann.

Stanley F. Kadow, architect, 988 Kinnickinnic av., is preparing plans for an addition to the plant of the Clear Ice Co., Clinton st., of reinforced concrete, 1-story and basement, 28x80; cork insulation, composition roofing, piling, etc.

Wenzel & Henoch, Milwaukee, were awarded the contract for plumbing on the 18-apartment building to be erected for Margraff Brothers at Prospect av. and Lafayette pl., by Martin Tullgren & Sons, architects, 133 2d st.

Robert Schmitz, architect, 801 3d st., is nearly ready for bids on a frame residence costing \$4,500 on 51st st., near Pabst av., and a frame duplex costing \$6,000 on Humboldt av., near Chambers st.

John Menge, Jr., architect, 605 Matthews building, is preparing plans for an \$8,000 store building for I. Goldman at 4th av. and Mitchell st.; solid brick, 2-story, 50x82 feet, hot water heating; the same architect has plans finished for a residence for F. Heuer on Cedarburg plank road, costing \$4,000.

L. M. Gurda, architect, 478 Mitchell st., is taking figures until March 24, on a store and 3-flat building for Jacob Dosanski at Midland av. and Manitoba st.; brick veneer, 2-story, 25x69.

John Roth, architect, is making plans for a stable for the Kipp Fuel Co., at 1437 Green Bay av., costing, \$5,000.

C. W. Valentine, 428 Jefferson st., architect, is preparing plans for the following new work: brick veneer and plaster duplex for J. L. Kripke on Farwell av., north of Linwood, costing \$7,000; a brick veneer and plaster duplex for A. Milbrath on Sherman blvd., costing \$7,500; a residence and garage for Howard D. Plimpton on Lake Drive, near Marion st., of brick veneer, 2-story and basement, 33x54; a bungalow for Mrs. F. Clarkson, costing \$4,500.

### DULUTH, MINN.

Office: 501 Lyceum Bldg. 'Phones, Grand 1304, Melrose 1247.

Building permits: H. H. Swain, frame residence, 11th st. and 13th av. E., \$2,000; D. Harvioletz, stone foundation basement, Raleigh st. and 58th av. W., \$1,500; E. Dryke, frame dwelling, Winona st., Woodland, \$2,000; H. Bergson, frame dwelling, 24th av. W. and Cascade av., \$2,000; Standard Insurance Co., frame dwelling, 14th av. E. and 9th st., \$1,500; F. A. Johnson, frame dwelling, 18th av. E. and 4th st., \$3,500.

\*A. Terryberry, architect, Palladio building, is preparing plans for a Swedish Mission church to be erected at 17th av. E. and 4th st.

\*John M. Carson, architect, 210 W. 1st st., has completed plans for alterations to the brick flat building, 9th av. E. and 3d st.

\*The contract for the residence of B. Cook, Cloverhill addition, Woodland, was awarded to Peter Olson; E. C. Gillison, architect.

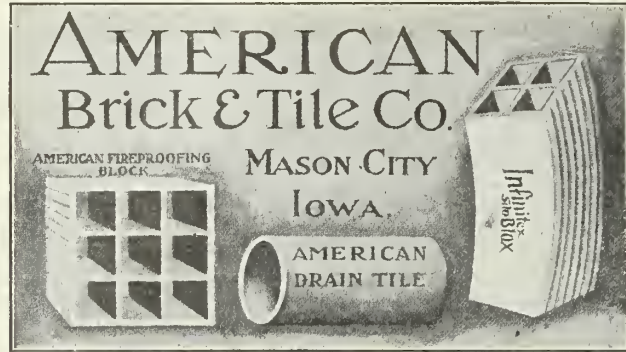
\*The Hanford Construction Co. secured the contract for the erection of a frame flat building, two apartments of five rooms each, for H. A. Gabbert, at 519 3d av. E.

\*Arthur Hanford, architect, Sellwood building, is preparing plans for Mr. Sam Everson, for a 2-story frame residence on Dodge st., between 47th and 48th av. E., Lakeside Land Co., cost about \$3,000.

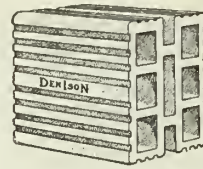
### FARGO, N. D.

Plans now on file in the office of the Fargo Builders' Exchange: Store, G. R. Horton, architect, brick, 73x60, 2-story, Jamestown, N. D., bids close Mar. 20; bank, W. K. Kurke, architect, brick, 1-story, Wahpeton, N. D., bids close Mar. 24; church, W. H. McFarland, architect, brick, 90x65, Valley City, N. D., bids close Mar. 25; store, Haxby & Gillespie, architects, brick, 25x120, 3-story, Fargo, N. D., bids close Mar. 30; school, Haxby & Gillespie, architects, frame, 46x44, 2-story, Clyde, N. D., bids close Mar. 30. Plans expected soon: School, G. R. Horton, architect, brick, 2-story, Medina, N. D., bids close Mar. 29.





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Red, Brown, Buff, Purple and Black

**RICKETSON MINERAL PAINT WORKS, Milwaukee, Wis.**



## OMAHA, NEB.

Permits for the seven dwellings to be built by Traver Bros. have been issued; frame, \$16,000.

Contract for constructing the grain exchange building regarded as probably to go to James Black & Co., St. Louis, who have draftsmen in city figuring out steel requirements, in preparation for early contracts.

The Colbert apartment house is to be finished Oct. 1; cost \$85,000; O. D. Kiplinger, owner; J. C. Mardis & Co., contractors; F. A. Henninger, architect.

Plans for the proposed national guard armory call for club and reception rooms, business offices, rooms for officers, indoor rifle range.

## PUBLIC BUILDINGS

**Iowa, Jefferson**—County board probably call election soon to vote on bond issue of \$150,000 for a court house building; B. S. McCully, county auditor.

**Iowa, Vinton**—County home destroyed by fire, loss \$30,000, insured for \$22,650; W. E. Gilchrist, county auditor, Vinton.

**Minn., Cloquet**—Citizens approved plan of council for issuing bonds for \$12,000 for a new fire hall; plans will be prepared by Kelly & Williams, Duluth, after which bids will be called for; H. A. Parks, city clerk.

**Minn., Le Roy**—Plans in progress for library building; 27 x 50, 1-story and basement; Claude & Starck, architects, Badger Annex, Madison, Wis.; address F. E. Garner.

**Minn., Rochester**—Capt. F. C. Ormond says operations will be started on the proposed armory as soon as the ground thaws out.

**Mont., Cascade**—Election April 5 to vote on bonds in sum of \$3,500 for erection of town hall and fire station; address city clerk.

**Mont., Choteau**—Citizens will vote April 1 on library proposition; address city clerk.

**Mont., Harrison**—Plans for contemplated city hall to be prepared by P. P. Vreeland, architect, Bozeman; address city clerk.

**Mont., Malta**—The Varney building, to be erected this spring, will be used as the court house for Phillips county; contract let to Mr. Montgomery.

**Mont., Red Lodge**—City will vote on library proposition April 15, \$15,000; address city clerk.

**Mont., Geyser**—Movement started for a jail building at Geyser! address the mayor.

**Mont., Miles City**—Low bidder for government building is Hiram Lloyd Building & Construction Co., St. Louis, at \$92,517.

**Mont., Roundup**—Plans will be submitted at April meeting of county commissioners by J. H. Grant, architect, for fire-proof county jail building; 1-story and basement, modern, to include jailer's office, dungeon, bull-pen and cell-room; address county clerk at Deer Lodge.

**Wis., Buffalo**—Voters of Marquette county will vote on a \$40,000 court house this spring; Walter B. Hull, chairman, Buffalo.

**Wis., Eau Claire**—City will vote on April 6 for a \$50,000 structure to include city jail, police headquarters, city departments and municipal court; address city clerk.

**Wis., Madison**—Council decided on a committee of 7, headed by Mayor Kayser, to consider ways and means for proposed city hall, costing approximately \$200,000; vote probably taken in the fall; address Mr. Norman, city clerk.

**Wis., Madison**—Preliminary plans in progress for remodeling court house; Claude & Starck, architects, Badger Annex; address W. H. Sieler, court house.

**Wis., Marion**—Plans for a village hall will be prepared by H. T. Liebert, architect, Wausau; 42x90, 2-story and basement, stone and brick, faced with tapestry brick; cost \$15,000.

**Wis., Medford**—Plans about completed by Architect Liebert of Wausau, for Carnegie library building; notice from the Carnegie Foundation that they are ready to honor drafts up to \$6,000; will be ready soon to receive bids.

**Wis., Mendota**—Will probably be several months before bids are asked for the new home for the feeble-minded and the new industrial home for women, as reported by the Wisconsin state board of control.

**Wis., Tomah**—City council expected to ask Carnegie foundation for \$14,000, for library building; address city clerk.

### BIDS WANTED.

**Kan., Fredonia**—Bids received by Emery Puckett, clerk of

Wilson county, until 1 p. m., March 29, for jail and sheriff's residence.

**Minn., Madison**—Bids being received by Captain Co. M., city, for armory building, including bowling alleys, dining room, kitchen, etc.; 64x100, 2-story and basement; J. E. Lotfield, architect, 817 Carroll st., St. Paul; cement, hollow tile, common brick, J-M. 3-ply asbestos refrigerating, electric work.

**N. D., Bismarck**—Bids received by T. E. Flaherty, county auditor, until 10 a. m., April 7, for a steel ceiling in the office of the county judge; check for 5 per cent.

**N. D., Colgan**—Bids received by E. L. Colgan, city clerk, until 2 p. m., April 8, for material and construction of a town hall; check for 5 per cent; lumber, hardware, paint, nails, cement, etc., required.

**N. D., Steele**—Bids received by J. C. McWinney, county auditor, until 2 p. m., April 9, for alterations and additions to court house; check for 5 per cent.

**Ore., Portland**—Bids received by light house inspector, until March 23, for construction of reinforced concrete light and gong station on Maury Island, Puget Sound.

**S. D., Aberdeen**—Bids received by J. J. Roberts, county auditor, until 10 a. m., April 7, for steel vault fixtures and installation in office of register of deeds; check for 10 per cent.

**Wash., Seattle**—Bids received by quartermaster general of the U. S. Army, until April 1, for hardware and tools for the fiscal year 1916.

**Wis., North Milwaukee**—Bids received by Louis G. Widule, county clerk, Milwaukee, until 2 p. m., March 22, for a complete vacuum cleaning system for the new Milwaukee county house of correction, costing \$575,000; Lenhouts & Guthrie, architects, 428 Jefferson st., Milwaukee.

**Wis., Wycocena**—Bids received by county clerk, Portage, Wis., until March 23, for a poor house and central heating plant; Allan D. Conover, architect, Tenney block, Madison.

### CONTRACTS AWARDED.

**Iowa, Walcott**—Contract to A. G. Will for city hall and lock-up.

**Kans., Chanute**—Contract to Mayhew & Freuchtel, Gadsden, Ala., for U. S. post office at \$51,630.

**Minn., Welcome**—Contract to Albert G. Will, Lakefield, Minn., for lock-up and village hall.

**Mont., Plentywood**—Contract to Bakke & Hilpe for a 40 x 32 addition to the court house.

**Neb., Harvard**—Contract to Davis & Weimer, city, for public library building at \$6,278, and to C. W. Wycoff, city, for plumbing and heating at \$747.

**N. D., Fort Totten**—Contract to E. W. Gilbertson, Devils Lake, for furniture and supplies for the Fort Totten Indian school, in competition with Carson, Pirie, Scott & Co., Chicago; Beaton & Lazier of Omaha, Orchard & Wilhelm of Omaha, and Marshall Field & Co., of Chicago.

**Wis., Shawano**—Contract to Fred Heröelow, city, for library building, at \$9,280.

## HOTELS AND HOSPITALS

**Iowa, Le Mars**—Plans under way for remodeling city hotel building; J. H. Hauber, one of the owners; brick, woodwork, tile, marble, decorating, refrigerating, plumbing, lighting, etc.

**Minn., Duluth**—The Carnegie Hotel Co., capitalized at \$50,000, will build hotel at Carnegie, the new town near Duluth; J. W. Rosenbaum is one of the incorporators.

**Minn., Sauk Rapids**—Proposed to incorporate for building of contemplated hotel; address the mayor.

**Neb., So. Omaha**—Plans for a new hospital building or addition to present building owned by South Omaha Hospital Association will be taken up at once by committee of which W. B. Tagg is chairman.

**Neb., Minatare**—Reported that O. G. Pierpont will build a modern hotel.

**Neb., Omaha**—The Rose Realty Co. is having plans drawn by F. A. Henninger, architect, for a new hotel corner 16th and Farnum sts.; 4-story, but with walls for 10 stories.

**N. D., Kenmare**—Hospital to be built by the Messrs. Ewing said to be assured; will be brick, reinforced, 50 beds, fully modern; stock all subscribed.

**S. D., Woonsocket**—Reported that a new hotel will be built here this season; address the mayor.

**Wash., Aberdeen**—Dr. G. E. Chamberlain and others have incorporated and will take over and later remodel Aberdeen general hospital.

**Wash., Okanogan**—Catholics will take over present hospital



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**Wash., Reardan**—Residence owned by W. T. Sullivan will be remodeled into hospital; Dr. L. M. Thompson in charge.

**Wis., Eau Claire**—Board of supervisors has decided to build addition to Mt. Washington hospital; trustees will secure plans and advertise for bids for construction; address county clerk.

**Wis., Florence**—Poldeman hotel burned, loss \$2,600.

**Wis., Green Bay**—Expected that bids will be opened March 20 for the new \$60,000 hospital of the M. E. church.

**Wis., Tomah**—Tomah Indian school hospital badly damaged by fire.

#### BIDS WANTED.

**Minn., Laporte**—Bids will be taken at once for hotel to be built by T. A. Larsen; 42-foot front, 2-story, frame, large basement, concrete foundation, 11 guest rooms, hard wall plaster, finished with Washington fir, furnace heat, hot and cold water.

**Minn., Moorhead**—Bids will be taken by state board of control, St. Paul, Minn., within the next 10 days on a sanitarium for Clay and Becker counties, to cost \$36,000; plans by A. J. Fridlund, architect, Moorhead.

**N. D., Grand Forks**—Bids received by Hans Anderson, county auditor, until 10 a. m., April 5, for one 12 h. p. stationary gasoline engine to be installed in the county hospital in Arvilla, N. D.

**N. D., Minot**—Bids being taken by G. Roy Ringo, owner, for hospital; 28x140, 4-story and basement; W. H. Wyeth, architect, 4606 Dover st., Chicago.

**Wis., La Crosse**—Announced that architects will be ready for bids on proposed hospital for sisters of St. Francis about March 25; 45x46, and 41x48, 3 and 4-story, brick and stone, elevators, etc., \$100,000; Parkinson & Dockendorff, architects, city.

#### CONTRACTS AWARDED.

**Minn., Moorhead**—Contract to Carl Bjorkquist, city, for the brick veneering of the new Columbia hotel, to be red press brick; Wm. Wagner, owner.

**\*Wis., Polonia**—Contract awarded, general construction to B. V. Martin, Stevens Point, Wis., at \$16,122; M. Mersch, Stevens Point, \$16,255; J. Playman, Stevens Point, \$18,900; heating and plumbing awarded to J. B. Sullivan, Stevens Point; electric wiring awarded to Naturich Electric Co., Grand Rapids, Wis. Contractor B. V. Martin is in the market for mill work, hard maple flooring, slate blackboards, etc. Frank Spalenka, architect, Stevens Point, in the market for cut stone and radial brick for stack.

### THEATRES AND HALLS

**Iowa, Boone**—The Country club will rebuild at a cost of from \$1,500 to \$2,000.

**Iowa, Sheldon**—Plans under way for Masonic temple; J. L. Kennedy, chairman building committee; probably, 3-story, fireproof.

**Iowa, Spirit Lake**—Plans completed about April 15 for pavilion for N. W. Iowa M. E. conference, costing \$10,000; Kirby T. Snyder, architect, Plymouth building, Minneapolis.

**Iowa, State Center**—Masonic orders will build temple this summer to cost \$25,000; address the secretary.

**Minn., Alexandria**—The management of the county fair is planning to build new structures on the fair grounds; address the secretary.

**Minn., Detroit**—Reported that C. E. Borge will build moving picture theater; his address is Lake Park, Minn.

**Mont., Bozeman**—Plans made by Fred F. Wilson Co. for the improvement of the Gem theater, to cost from \$2,500 to \$3,000; entire new front, auditorium to be enlarged, new ventilating system; work to be done by Vreeland-Wilson Engineering Co.

**Neb., Grand Island**—Elks lodge plan early building of lodge hall; A. M. Connors, secretary.

**Wash., Prescott**—Knights of Pythias will build \$10,000 lodge building.

**Neb., Kearney**—Preliminary plans in progress for a gymnasium, owned by the state; cost, \$50,000; 2-story and basement; J. H. Craddock, architect, Continental block, Omaha; Silas W. Holcomb, secretary, board of control, Lincoln, Neb.

**Neb., Lincoln**—Sketches have been made for fraternity house for Phi Kappa Psi fraternity; W. B. Noble, president, 1540 Q st.; 3-story and basement, 27x60, \$20,000; Jesse B. Miller, architect, Little building.

**Neb., Norfolk**—Committee has been appointed to make

definite plans for a home for the Germans of Norfolk, to be headquarters for the Landwehr Verein.

**N. D., Dickinson**—Plans are being made for the proposed club house; address the mayor.

**S. D., Broadland**—Definitely decided to build a hall for the Odd Fellows; cost \$4,000.

**Wash., Seattle**—Reported that the Coliseum Co. just incorporated plans building \$600,000 photo play house; plans by B. Marcus Priteca, architect.

**Wis., Ashland**—Big club house will be built this summer on lower Pike lake by John Pollard, Kansas City, Mo.; 30 to 50 bed rooms, golf links, tennis court, motor boats, etc.

**Wis., Delavan**—Architect will soon be selected for lodge and store buildings for the Knights of Pythias, care W. B. Tyrrell; 2-story and basement; \$25,000.

**Wis., Oconomowoc**—Young Batchelor's club, care of Dr. W. S. Wing, contemplate building \$8,000 club house.

**Wis., Rhinelander**—Rumored that Paul Philleo of the Bijou will erect modern moving picture theater; said that plans are in the making.

#### BIDS WANTED.

**Neb., Omaha**—Bids probably taken in May for Masonic temple, approximate cost \$300,000; 8-story, fireproof, plans to be started at once.

**Wis., Rhinelander**—H. T. Liebert, architect, Wausau, Wis., has completed plans for a new theater seating 1,500, for Harvey and Percy Hanson, and bids for its erection and equipment are now being taken by the owners.

#### CONTRACTS AWARDED.

**Iowa, Fairfield**—Contract to Taylor Wildman, local, for proposed Masonic temple at about \$30,000; 2-story and basement, first floor for office rooms and business apartments, second floor to use of the Masons.

**Mont., Great Falls**—Contract to Trussed Concrete Steel Co., Detroit, for the reinforcing steel, steel floor tiles, and all steel required in Y. M. C. A. building. The general contract is held by the Lang Engineering Co., city, at \$73,550; plumbing, heating and ventilating to Collings Plumbing Co., at \$17,843, and wiring to the LePage-McKinney Co. at \$1,798.

**Wis., Mauston**—Contracts have been let by Odd Fellows to A. F. Bellmeyer, Grand Rapids, for a new hall; 40x84, 3-story, lodge room will have 18-foot ceiling and gallery; club rooms, dining hall, kitchen, cloak room, regalia room, toilets.

### SCHOOLS

**Ill., Elvaston**—Plans prepared by Payne & Sons, architects, Carthage, Ill., for a 1-story brick school building in district, care architects; bids taken May 1; cost \$6,000; 3 rooms, concrete foundation, medium pressed brick, shingle roof, wood cornice, plain glass, hard plaster, steam heat, maple floors, pine finish, boilers, blackboards, hollow tile.

**Iowa, Clark**—Board of education will call election to vote on erection of school, cost \$30,000.

**Iowa, Clear Lake**—Fire escapes for the school building is being furnished and erected by the Des Moines Structural Steel Works, Des Moines.

**Iowa, Fort Dodge**—\$150,000 bond issue for public school buildings was defeated.

**Iowa, Hansell**—The Des Moines Structural Steel Works, Des Moines is furnishing steel and iron for new school building, Hansen & Hansen, contractors.

**Iowa, Hull**—Plans will be furnished within the next three weeks by Architect E. E. Colby, for an academy building, to be built by the Western Calvin Society frame, 2-story and basement, 32x50; cost \$5,000.

**Iowa, Hull**—School will be erected here; cost \$30,000.

**Iowa, Missouri Valley**—Board of education will advertise for bids about April 1, for erection of school building.

**Iowa, Missouri Valley**—\$80,000 bonds were voted for new school.

**Iowa, Mitchellville**—Fire escapes for industrial school for girls are being furnished and erected in place by the Des Moines Structural Steel Works, Des Moines.

**Iowa, Sharpsburg**—Petition is being circulated asking school board to submit at the annual election, proposition of voting \$6,000 for school.

**Iowa, Vallisca**—Board of directors will rebuild Sampson school burned; cost between \$1,800 and \$1,900.

**Minn., Appleton**—Fire destroyed the school in district 22, Hegbert, valued at \$1,000, insured at \$500; plans to be prepared soon for new building.

**Minn., Fertile**—Bonds of \$30,000 for new school were voted and carried.

**Minn., Hennepin County**—District No. 53, Clerk W. B.



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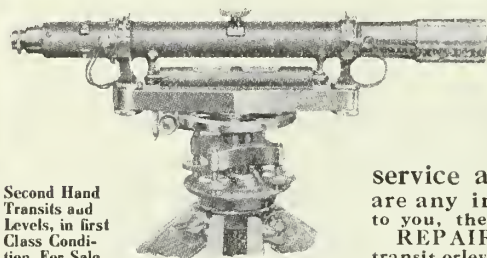
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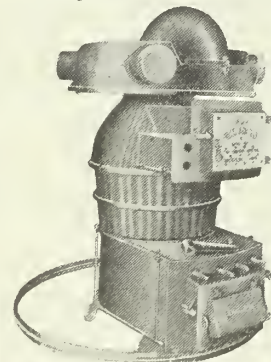
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Miller, Wayzata, Minn., RFD No. 3; plan of 4-room brick building with steam heat and fan ventilation submitted by Long, Lamoreaux & Long; approved by commissioner of school buildings.

**Minn., Marshall County**—District No. 37, Clerk John Nelson, Viking, Minn., 2-room frame school building, heated by means of hot air furnaces; plans approved by commissioner of school buildings.

**Minn., Milaca**—Fire destroyed modern school building; loss about \$75,000; insured at \$40,000.

**Minn., Moose Lake**—School in section 21, district 3, burned, insured at \$1,200.

**Minn., St. Cloud**—Clerk P. E. Kaiser, Superintendent C. H. Barnes; plan of vacuum-vapor heating system for Lincoln school; approved by commissioner of school buildings.

**Minn., Steele County**—District No. 10; A. J. Kujawa, Owatonna, Minn., RFD. No. 10; 1-room rural school, frame construction, 22 feet by 38 feet; ventilating room heater; approved by commissioner of school buildings.

**Mont., Bog Coulee**—A new school will be erected here; 16x20, work to commence soon; address clerk of school board.

**Mont., Butte**—Bond election may be called by local school board to vote \$75,000 bonds for gymnasium and auditorium to high school.

**Mont., Havre**—A school district No. 52, has been organized in vicinity of Baldy, trustees Messrs. Hesspath and Wise and Mrs. Ambrose, Phalen, site will be selected soon for new school.

**Mont., Plentywood**—Plans are under way for erection of a summer school for teachers.

**Mont., Terry**—Election April 3, to vote on \$20,000 bonds for school.

**Mont., Worden**—Movement has been started to call special election to vote \$35,000 bonds for more new school buildings; address clerk.

**Neb., Battle Creek**—The German Lutherans will erect school here, cost \$8,000.

**Neb., Battle Creek**—Lutherans will build a new school; cost \$8,000.

**Neb., Scottsbluff**—Plans in progress by Architect O. J. Hehnke, for a 2-story school, 38x72; cost \$9,000; architect will take bids later.

**N. D., Glen Ullin**—Bonds carried for addition to high school; cost \$11,000.

**N. D., Grand Forks**—Plans are nearing completion for erection of a parochial school for the St. Michael's Catholic cathedral; Manager J. A. Lemieux, pastor in charge.

**N. D., Jamestown**—No contract awarded on 2-story and basement, remodeling of present school building.

**N. D., New Leipzig**—Fire destroyed the public school building here, valued at \$6,000; insured at \$4,000.

**N. D., Rolette**—School will be rebuilt here, recently burned; plans to be prepared by Architect J. A. Shannon, Devils Lake.

**N. D., Valley City**—Election will be held soon to vote on proposition of new consolidated school in Noltmier township; Harry Bruns, interested.

**S. D., Chamberlain**—School board are considering proposition of erecting a new school building.

**Wis., Kenosha**—Contract for erecting of open air school was awarded to Windorf Bros., Kenosha, at \$1,700.

**Wis., Monroe**—Parochial school will be erected by Catholic congregation; cost \$18,000 to \$20,000; Rev. Thomas Dempsey, pastor.

**Wis., Neenah**—Twenty-six acres of land have been purchased by the school board, for erection of a new high school; cost when completed over \$1,000,000.

**Wis., Patch Grove**—Grant county will build \$20,000 school building this summer.

**Wis., Peshtigo**—Common council has appointed Aldermen Bandow, Huntington and Stehle, committee to co-operate with board of education in procuring plans and arranging for financing addition to Peshtigo high school; cost about \$45,000.

**Wis., Plum City**—Proposition is being discussed for a new school building.

**Wis., Randolph**—Erection of the Randolph high school postponed indefinitely on account of not getting loan from state; Raeuber & Mehner, architects.

**Wis., Shiocton**—Board of education has selected Anderson & Williams, architects, Green Bay, Wis., to prepare plans for a new high school, to replace structure recently burned; cost about \$75,000.

**Wis., Union Grove**—Sketches have been made by architects, Guilbert & Funston, Racine, Wis., for high school, 2-story and basement; Hy. Vyvyan, board of education.

**Wis., Waukesha**—Board of education has voted to ask common council for an appropriation of \$134,000 for school construction, program for 1915, which includes a new high school building; no plans prepared as yet.

## BIDS WANTED.

**Iowa, Riceville**—Bids received until 2 p. m., April 3, for painting of 11 school buildings in Afton township; bids taken at Riceville State Bank.

**Iowa, Thompson**—Bids received until March 24, 1:30 p. m., for public school, Winnebago county: (A) general construction; (B) heating and ventilating; (C) plumbing; plans by Jas. S. Cox, architect, Estherville, Iowa, on file at office of A. B. Larson, Thompson, and office of architect; check 2 per cent, for contract (A), 5 per cent, for contract (B) and (C); A. B. Larson, president; bids will also be received at same time and place for removal of old school.

**Mich., Munsing**—Charlton & Kuenzil, architects, Camp building, Milwaukee and Marquette, Mich., have completed plans for a \$75,000 graded and high school building, brick and stone, 65x115, 2-story and basement; bids will be taken until March 22, by G. S. Collins, secretary, board of education, Munsing.

**Minn., Albert Lea**—Bids received until March 27, 2 p. m., for school in district 47, Freeborn county; 1-room, frame; plans with county superintendent of schools, Freeborn county; check \$100; W. J. Nagel, clerk.

**\*Minn., Kenyon**—Bids received by J. A. Gates, president of school board, until 6:30 p. m., April 5, for school building, including general construction, heating and plumbing, electrical work and fixtures, etc. Officially advertised in this issue of the Improvement Bulletin.

**\*Minn., Lamberton**—Bids received until 8 o'clock, April 5, by school board, district No. 31, Redwood county, for construction of school; plans by Kirby T. Snyder, architect, Plymouth building. Check for 3 per cent. See official advertisement in the Improvement Bulletin this week.

**Mont., DeMers**—Bids taken until March 26, for erection of a school in district No. 53, Toole and Teton counties; plans with clerk, A. Begin.

**N. D., Bismarck**—Bids received until April 10, 2 p. m., for two frame schools in Telfer township, Burleigh county; plans by A. Van Horn, architect, Bismarck; plans with C. L. Nigness, county superintendent and Mrs. R. L. Sherman, clerk, Brittin, N. D.

**N. D., Linton**—Bids will be received until April 10, for erection of three schools, in school district No. 28; plans with county superintendent; check \$200; Adam Lipp, clerk, Strassburg, N. D.

**Wis., Durand**—Bids received by State Bank of Durand, Wis., until April 7, on 2-story parochial school and dormitory, Holy Rosary congregation, at Lima, Papin county, near here.

**Wis., Elroy**—Wm. Flood, city engineer, will take bids after March 18 on equipment of central heating plant and gymnasium building, for high and grade schools; Parkinson & Dockendorff, architects, La Crosse, Wis.

## CONTRACTS AWARDED.

**Minn., Pipestone**—Contract awarded to Brown & Williams for addition to Boys' Indian school, dormitory building, at \$2,500, exclusive of plumbing and heating.

**Neb., Lexington**—Contract awarded to F. H. Jacobson, for plumbing, heating and ventilating of \$40,000 high school, at Sidney, Neb.

**Wis., Beloit**—General contract awarded to John Schneiberg, Beloit, for erection of a fireproof gymnasium addition, to contain swimming pool, baths, lockers, etc., for Beloit college; contract for tile and mosaic work awarded to Milwaukee Mantel & Tile Co., Milwaukee; Dr. E. D. Eaton, president.

**Wis., Cuba City**—Contract awarded to R. F. Conlon for erection of parochial school.

## ELECTRICAL

**Iowa, Altoona**—The Gibson Electric Co., of Altoona, plans within the next three months to purchase transformers, poles, and other line materials for erection of several rural lines out of both Altoona and Mitchellville, and for considering new line work in both of the above named towns; also to purchase electrical equipment including heating and cooking apparatus, etc.; Geo. P. Gibson, proprietor.

**Iowa, Denison**—The Des Moines Structural Steel Works, Des Moines, Iowa, is furnishing steel and iron for the new telephone building; J. F. Kobler, contractor.

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**Iowa, Des Moines**—The Fort Dodge, Des Moines & Southern road may co-operate with the proposed road of Col. Luce, Minneapolis, in building interurban extension connecting the two roads.

**Iowa, Gilman**—Town is discussing proposition of light plant and extension of railway by the Iowa Railway & Light Co.

**Iowa, Marshalltown**—Appropriation of \$25,000 has been made for improvements and extensions of the Iowa Railway & Light Co. line.

**Minn., Granite Falls**—The Minnesota Falls Power Plant has been purchased by Coler Campbell of Huron, S. D., at \$180,000; plant furnishes light and power to Montevideo, Clara City, Sacred Heart and Renville.

**Minn., Sherburn**—Board of public works plans to purchase a 220-volt 25-amp. 8-hour battery, for lighting 118 cells; also within the next six months, to purchase equipment for an ornamental lighting system; G. Fabianke, manager.

**N. D., Minot**—The Northern Telephone Co. will within the next one or two months, purchase a motor driven pump for the city water supply; C. H. Coar, general superintendent.

**Wis., Bayfield**—A meeting was held here March 12, for purpose of forming organization to construct an electric or motor railway between Bayfield and Superior via Port Wing, Cornucopia, and other points on south shore of Lake Superior.

**Wis., Elk Mound**—The Elk Mound Telephone Co. will extend its lines this spring, about 12 miles.

#### BIDS WANTED.

**S. D., Madison**—Bids will be received until March 29, for furnish following electrical equipments: one 50 h. p. slip-ring-type induction motor, one drum-type controller for above motor, two motor control panels, one 50 h. p. and the other 40 h. p.; 125 linear feet, four conductor, lead covered cable, 125 linear feet fiber conduit and fittings; Chas. A. Trimmer, consulting engineer, Madison, S. D.

**S. D., Madison**—Bids received until March 29, for installing an engine of about 350 h. p., bids received both on crude oil and producer gas engines, one two-phase 60 cycle, 2,200-volt generator, etc.; Chas. A. Trimmer, consulting engineer, Madison, S. D.

#### CONTRACTS AWARDED.

**Minn., Marshall**—Contract awarded to the Erie City Iron Works of Erie, Pa., for the Lentz four-valve engine, together with the generator, manufactured by the Electric Machinery Co., Minneapolis; B. L. Hanks, representative, Minneapolis, and representative of the Erie Co., F. Wollin, representative of Minneapolis company; W. C. Buck, Minneapolis, consulting engineer.

**Wis., Rice Lake**—The Red Cedar Valley Electric Co., Rice Lake, Wis., has contract with the Busch-Sulzer Bros., Diesel Engine Co., St. Louis, Mo., for one 225 h. p. Diesel oil engine, direct connected to a 160 k. w. generator, and 12,000 gallon oil tank, as auxiliary to its hydroelectric plant, consisting of two 160 k. w. generators.

### MILLS AND FACTORIES

**Iowa, Mason City**—Arthur Hirsch will erect a new hide tannery building, to replace one recently burned, with a loss of about \$50,000.

**Minn., Fergus Falls**—The Red River Milling Co.'s flour mill burned, loss about \$40,000, insured at \$2,300; Elmer Adams, C. W. Kaddatz and F. G. Barrows, owners; may rebuild at once of concrete.

**Minn., Mankato**—The Mayer Brothers Co. are planning to erect an additional building to their plant.

**Minn., Mankato**—The Minnesota Tile Co. will erect a factory here; J. S. McLaughlin, W. H. McLaughlin, D. W. McLaughlin and J. A. McLaughlin, all of Red Oak, incorporators; \$50,000.

**Minn., Waterville**—Stockholders of the Co-operative Creamery Association, will erect a new building, cost \$8,000; W. E. Spoor, Jas. Simpson and Geo. Lawin, committee in charge of work.

**Mont., Antelope**—The Farmers' Grain & Manufacturing Co., recently organized with capital of \$20,000; O. B. Hoven, Alfred Hoven, and W. W. Clark, of Antelope; company will lease, build and operate grain elevator, flour mills, electric light plants, etc.

**Mont., Maxville**—The Field Metal Recovery Co. is having plans prepared for a testing plant, mill of 1,000 tons capacity.

**Wash., Tacoma**—W. H. Goodenough, former superintendent of the American Writing Paper Mill, in this city, will establish a paper mill here.

**Wis., Ashland**—V. V. Smith, pickle manufacturer, represent-

ing the Onalaska Pickle & Canning Co., may install a factory here.

**Wis., Beaver Dam**—The plant of the Variety Wood Works, 126 E. 3d st., damaged by fire about \$3,000; insured at \$4,600; owned by E. O. Siedschlag Co.

**Wis., Camp Douglas**—Creamery at Clifton corners burned.

**Wis., Chippewa Falls**—A laundry building may be erected by the proprietor of the Chinese laundry.

**Wis., Fond du Lac**—The Boex-Holman Co. is making extensive plans for improvements to their factory, cost about \$10,000.

**Wis., Kaukauna**—The Thilmany Pulp & Paper Mill is having plans prepared for a new paper and pulp mill, of steel and brick, stone front, 72x220, 2-story, with a 40x140-foot reinforced concrete annex; bids taken about March 27.

**Wis., La Crosse**—The Wisconsin Pearl Button Co. will close bids about March 20, for erection of a new factory, cost \$20,000 to \$25,000; brick, one and two-story and basement, 80x125; fireproof; Dan W. McMillan, president.

**Wis., Madison**—Steps are being taken for erection of a plant here by the Farmers' Co-operative Packing Co., capital \$500,000; Oswald Neevig, Julius G. Kroken, Herman Schulz and others, incorporators.

**Wis., Milwaukee**—C. F. Ringer, architect, Hathaway building, will take bids about March 22, for a 40x150, 3-story, solid brick, addition to the baby carriage factory of E. R. Pahl Manufacturing Co.

#### CONTRACTS AWARDED.

**Minn., Hutchinson**—Contractor Jennings has contract for addition to creamery at West Lynn.

**Wis., Milwaukee**—General contract for 1-story solid brick factory building, 40x100, for the Babcock Auto Spring Co., was awarded to Chris Schoknecht, Milwaukee, by Geo. C. Ehler, architect.

### CHURCHES

**Iowa, Richland**—The Friends are planning to erect a new edifice.

**Wis., Easton**—All bids on the Catholic church were rejected and building committee will carry on work under supervision of Architect O'Keefe.

**Minn., Hills**—The Federated church will remodel and enlarge its building.

**Mont., Gilman**—Ground has been broken for new Catholic church here.

**N. D., Valley City**—Plans have been received from Architect E. H. McFarland, for new church for the First Congregational church here; cost \$45,000; bids will be taken March 25.

**Wis., Kaukauna**—Plans prepared by J. F. Dreger, Oshkosh, Wis., for a church for the Trinity Lutheran congregation, brick, 46x98; cost \$18,000; bids taken March 20, by owner, close April 10; steel trusses, terra cotta, cut stone, common, pressed brick, steam heat, electric light, composition roof, patent ornamental plaster, art glass, maple floors, oak finish.

**Wis., Menasha**—Plans are being considered for new church building, on the island, between here and Neenah, by the Episcopal congregation.

**Wis., Milwaukee**—Brust & Phillips, architects, Camp building, awarded following additional contracts on \$275,000 convent and chapel of St. Joseph, Greenfield av. and Layton blvd.; marble, Andren Stone & Marble Co., Milwaukee; tile and terrazzo, Urban F. Durner, Milwaukee.

#### BIDS WANTED.

**Minn., St. Paul**—Bids received until March 31, 2 p. m., for a frame church at Lafond st., between Syndicate and Hamline avs., Rev. M. Casey, pastor, 1259 Thomas st., St. Paul, takes bids; W. F. Keefe, architect, 304-5 American Bank building; check 2 per cent; official advertisement in the Improvement Bulletin this week.

**Wis., Stevens Point**—E. Breilmaier & Sons, architects, University building, Milwaukee, will take bids until March 23, for erection of an \$80,000 addition to St. Joseph's convent, Sisters of St. Joseph, brick, fireproof, 3-story and basement, class rooms, dormitories, etc.

#### CONTRACTS AWARDED.

**Minn., Fairfax**—Contract awarded to J. M. Hindermann of Fairfax, for erection of the new German Lutheran church, at \$16,227; brick contract awarded to Hydraulic Press Brick Co., Minneapolis; common brick to the Chaska Brick Co., Mr. Hindermann's bids does not include, sand, glass, furniture, lighting, heating plant, or finishing of basement; 54x80, two towers, 103 feet high, with clock, concrete or cement trim, awarded to Geo. Saffert of Fairfax; I. F. Albrecht, pastor.



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## ELEVATORS

**Iowa, Audubon**—The Johnson Grain Co. will erect a modern elevator in near future.

**Minn., Fergus Falls**—The Red River Milling Co.'s elevator burned; Elmer E. Adams, C. W. Kaddatz and F. G. Barrows, owners.

**Minn., Sunbeam**—Business men of Goodridge are planning to organize a farmers' elevator company, to build an elevator.

**Mont., Belgrade**—The Menard Mercantile Co. of Menard will erect a grain elevator at dry creek terminal early in June.

**Neb., Chester**—The Citizens' Lumber & Supply Co. will erect a new farmers' elevator, modern.

**Sask., Saskatoon**—Fire destroyed office of the A. McMichael's elevator, at Beatty.

## BUSINESS BUILDINGS

**Iowa, Charles City**—Plans will be out in two weeks for a 2-story, 22x121 brick store building, for W. Lindaman; tile and concrete, partly fireproof, cost \$15,000; J. O. Hughes & Co., architects, Charles City; steel beams, iron vault lights, tile, reinforced concrete, gypsum block, fireproofing, cut stone arch, terra cotta, common, pressed brick, vacuum vapor heat, electric lights, composition roof, common patent plaster, metal lath, corner bead, sidewalk lights, plate, prism glass, tile floor, oak and maple floors, oak finish, birch finish; day work.

**Iowa, Sac City**—Mrs. E. E. Lewis has begun excavation for business building, 44x72, cost \$10,000; red grape-vine brick, white enamel with green trim, 2-story, modern, 8 suites of office rooms.

**Minn., Madelia**—Plans prepared by Architect Albert Schipfel, Mankato, for 1-story office building, brick, for Farmers' Insurance Co., Mankato; cost \$35,000, common brick, pressed, composition roof; bids taken by architect; owner will purchase vault doors.

**Minn., North Branch**—Messrs. Satterstrom & Erickson have let contract for large hardware and furniture emporium, to Contractor G. W. Carlson of Cambridge; brick, stone and steel, 50x90, full basement, excavating.

**Minn., St. Cloud**—Plans prepared by Rolland C. Buckley, architect, St. Cloud, Minn., for a 2-story brick warehouse, 50 x100, cost, \$12,000, for the Grinols Co.; bids taken March 18, by owner close April 1; steel beams, cast columns, granite cut stone, common pressed brick, one vault door, steam heat, electricity, composition roof, plate prism glass, maple floors.

**Minn., St. Peter**—Fire damaged the plant of the St. Peter Herald about \$3,000; insured; Essler & Quane, publishers.

**Minn., Thief River Falls**—A new 3-story block will be erected by J. O. Lein and C. A. Steen of Grafton, N. D.

**Mont., Billings**—Mrs. Katherine Harris will erect a 2-story brick business building, cost about \$20,000; two large store rooms, six complete buffet apartments, of two and three rooms each on 2d floor, modern fixtures, laundry, pressed terra cotta exterior, hot water heat; Linke & Haire, architects.

**Neb., Omaha**—A 3-story an dbasement building will be erected by Brandeis & Sons.

**Neb., Omaha**—Architect T. A. Henninger is completing plans for erection of building for the Rose Realty Co., cost about \$150,000.

**Neb., Scribner**—Fred Stabenow will erect a modern business building, brick, 25x100, 1-story and basement.

**Neb., Silver Creek**—Shank Brothers will erect a modern cement block building; pressed brick front and plate glass.

**Neb., Syracuse**—W. C. Lambeth & Sons, have let contract for new clothing store.

**N. D., Dickinson**—The Dakota National Bank will erect a building for the Recorder-Post, 65x25, 1-story, concrete.

**N. D., Fargo**—Plans have been received by V. C. Leeb of the Builders' Exchange, for erection of a 3-story, brick building, for A. K. McKone of St. Louis; Haxby & Gillespie, architects; bids taken until March 30.

**S. D., Rapid City**—A modern 3-story, 65x65, bank and office building for Merchants' Loan & Trust Co., Rapid City, J. P. Eisentraut, architect, Rapid City, plans out in 30 days, granite, sandstone and press brick; gravel roof, stone cornice, skylights, structural iron, oak finish, tile wood floor, electric fixtures, office lavatories, water closets, fireproofing, plate, d. s. glass, metal lath, hard plaster, store front, metal windows, sidewalk lights corner beads, grilles, heating, vapor, marble and mosaic, plastic ornaments, ventilators, roof, elevators, (1) electric, H. P. boiler, motor generator.

**S. D., Tripp**—Plans and specifications will be prepared by Architect G. W. Burkhead for new brick and stone store building and hall in about 10 days; 2-story and basement, 42x112.

**Wis., Appleton**—The Thilmany Pulp & Paper Co. of Kaukauna, will erect a new brick building, 72x220, steel and brick; warehouse, 40x140, cement block.

**Wis., Auburndale**—Martin Draxler will erect a modern 1-story brick building.

**Wis., Chippewa Falls**—Lumberman's National Bank will soon be ready for bids for erection of a new banking house, 52x57, according to plans by J. W. Cady, architect, Chicago, Ill.; new safe and vault, equipment throughout.

**Wis., Dunbar**—Fire destroyed the mercantile store building of the Girard Lumber Co. and Wausaukee Railway; loss \$30,000 insured.

**Wis., Mauston**—The directors of the State Bank of Mauston, Wis., considering erection of a new bank building, during present year, architect not yet selected, and no definite appropriations yet made.

**Wis., Madison**—The J. I. Case Threshing Machine Co., Racine, will be ready for figures about March 27, for erection of a \$35,000 branch house warehouse, garage and machine shop building, for branch at Madison, Wis., brick and mill construction, 2-story, 100x140.

## BIDS WANTED.

**Iowa, Burt**—Smith Brothers, general merchandise, are remodeling and building an addition to their building; plans and specifications out; contract to be let April 8; address Smith Brothers, Burt, Iowa.

## CONTRACTS AWARDED.

**Iowa, Fort Madison**—Contract awarded to Allan W. Smith for general contract on new building of the German-American Bank, cabinet work to the Wallaeger Manufacturing Co. of Milwaukee, Wis., work to begin April 1.

**Neb., Fairbury**—Contract let to T. A. Johnson for general work on new Page building and mason work to Kirkland and Hill.

**N. D., Ambrose**—Contract awarded to Albert Bjoraas of Dawson, Minn., for Citizens' State Bank building here; also have contract for addition to the Fair store, here, 50x75, 3-story and basement, store in first story, basement, flats above, store, 25x60, with basement, brick, for Mr. Ellis of Minot; J. C. Woodruff, architect, Minot.

## RAILROADS

**Mich., Menominee**—Vice President R. H. Ashton of the C. & N. W., promised business men here a "splendid new station."

**Mont., Anaconda**—Construction of a railroad from Keating gold mines to the N. P. will begin June 15; 19 gasoline engines; 42-gauge road, 19 miles; 25 steel cars; total cost \$150,000.

**Mont., Butte**—\$100,000 has been added to appropriation by the Milwaukee road for the passenger station here, making total cost \$225,000; work to start about April 1.

**N. D., Beach**—Contracts may be let soon on N. P. branch to Burkey, to be completed in October for hauling crops.

**N. D., Hatton**—Preparations for building new station started.

**Wis., Balsam Lake**—The Balsam Lake & Eastern Railroad Co. has applied to the Wisconsin railroad commission for authority to construct about 6 miles of steam railway, all within Polk county.

**Wis., Cashton**—The Cashton & Hillsboro Railroad Co. has made application to the Wisconsin railroad commission for authority to construct an extension of 28.4 miles to Richland Center, Wis.; M. M. Cash, president, Cashton.

**Wis., Madison**—M. M. Cash of Cashton, Wis., president of the Cashton & Hillsboro, applied to the state board for permit to extend to Richland Center, 28 miles.

**Wis., Madison**—The Wisconsin railroad commission has ordered the Chicago, Milwaukee & St. Paul Railway Co. to build a reinforced concrete overhead bridge at the Sauk road crossing, Mendota beach, near Madison, to be completed in 9 months; the estimated cost is \$15,000.

**Wyo., Douglas**—About the 1st of April, it is expected, construction of the Burlington station will begin; structure will be of brick and will cost approximately \$20,000.

**Wyo., Casper**—General Manager Frank Walters of the N. W., while here last week, ordered work to start on two new warehouses to be located one at Cadoma and the other at Waltman.



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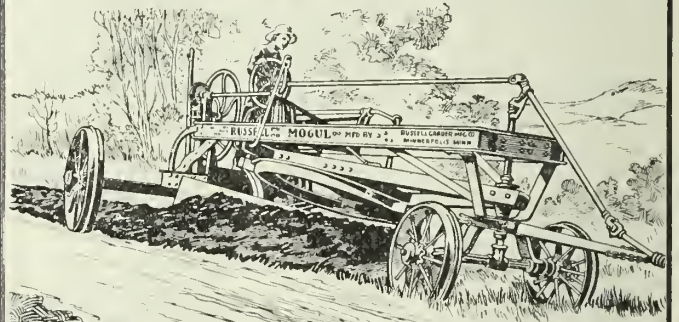
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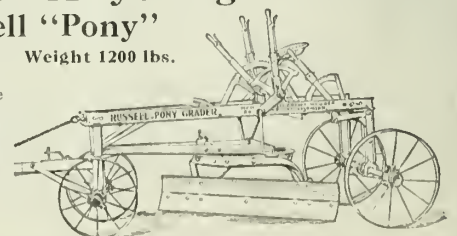
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## FIRE APPARATUS

**Iowa, Dubuque**—Bids will be received until Mar. 25, 8 p. m., for an automobile fire engine for the fire department (bids readvertised). Address Alderman Clancy.

**Minn., Baudette**—Volunteer fire department elected officers: Chief, J. L. Donahue, assistant chief, R. W. Ball; secretary, C. J. Brownrigg; treasurer, T. J. Clausen.

**Minn., Willmar**—Contract awarded to the Volunteer Firemen Signal Co., Minneapolis, for fire alarm system here.

**Mont., Bozeman**—City council has voted on purchase of an automobile combination chemical and fire hose truck.

**Wis., Barron**—A. Clemmons was elected chief of the fire department; C. A. Beckwith, secretary.

**Neb., Bristow**—Village board will erect a building for the hose cart and firemen's use.

**N. D., Ray**—Oscar Johnson was elected chief of the fire department; Reuben White, assistant chief.

**Wis., Cuba City**—Village board will order three hydrants and a gate valve. Walter Brewer, village clerk.

**Wis., Kewaskum**—John F. Schaefer was elected chief of the fire department in place of F. E. Colvin, resigned.

**Wis., Waukesha**—Election will be held April 6, to vote on issue of bonds for purchase of additional chemical fire apparatus; Peter Wild, chief.

## PARKS AND CEMETERIES

**Minn., Hibbing**—O. B. Warren, secretary of park board, has issued call for bids for 1,205 deciduous trees, 2,800 deciduous shrubs, and other nursery stock, to be planted in park this spring.

**Mont., Helena**—Work will soon start on completion of new public park, petition is being circulated for funds to carry on work; W. C. Riddell, chairman of committee.

### BIDS WANTED.

**Wash., Spokane**—Bids received by J. W. Starck, county engineer, until April 6, for paving Rockford, Waverly and Denison-Deer Park permanent highway with asphalt macadam, about 146,300 square yards, paving and 150,000 cubic yards earth and solid rock excavation, cost about \$150,000, to be let in two contracts.

**Wash., Walla Walla**—Bids received by M. A. Power, city clerk, about March 30, for paving N. 2d, N. 9th and Whitman sts. and Isaac av.; probably gravel bitulithic on concrete or crushed rock foundation; cost \$30,000 to \$40,000.

## RESIDENCES

**Iowa, Charles City**—Plans prepared by J. O. Hughes & Co., architects, Charles City, for residences for Dr. Holden; 2-story wood, 28x34, cost \$4,700; bids taken any time by owner.

**Iowa, Charles City**—Plans prepared by J. O. Hughes & Co., architects, for a 2-story brick tile, 29x34, residence, for John Heddens; cost \$6,000; bids taken in about three weeks, by owner.

**Iowa, Denison**—Plans prepared by Edgar L. Barber, architect, Denison, Iowa, for a 1½-story frame residence, 31x38, cost \$3,500, for Roy E. Note; bids taken until March 25, brick and tile foundation, pressed brick, Neponset shingle roof, wood cornice, d. s. and art glass, hard plaster, Beech floor, red gum interior finish, bath room, hollow tile, screens, plumbing.

**Minn., Fergus Falls**—Plans prepared and contract awarded to M. J. Alberg, Fergus Falls, for a 1½-story frame residence, for Wm. Galener; 24x28, cost \$2,000; city water, wood shingle roof, patent plaster, S. W. paint, S. W. varnish, maple floors.

**Iowa, Atlantic**—Plans prepared by Yale & Waldo, architects, Creston, Iowa, for a 2-story and basement residence, 32x40, for Chas. F. Chase; bids being taken now by architects, close March 24; hollow tile, steel beams, tile fireproofing, fire color brick, hot water heat, electric lights, asbestos shingles and tile, metal lath, corner bead, plate, art, leaded glass, tile hearths and floors; oak and tile floors, oak and birch finish, garage fittings.

**Iowa, Des Moines**—Steel and iron for the Hulizer apartments at 16th and Center sts., is being furnished by the Des Moines Structural Steel Works.

**Minn., Johnson**—Time of bids extended from March 10 to

March 25, on parsonage for the Evangelical Lutheran congregation; Rev. J. C. Siegler, pastor.

**Minn., Argyle**—Louis Riopelle is planning erection of a modern residence this spring, full basement, heating plant, electric lights, etc.

**Minn., Buffalo Lake**—Following are planning to build this spring: A. M. Anderson, Fred Stuber, O. J. Jenison, Walter Pence, Herman Anderson and Nels. Hurtig.

**Minn., Canby**—J. R. Thompson will erect a modern residence, cost about \$3,000.

**Iowa, Manson**—Wm. Haupts is planning to build a modern residence.

**Minn., Duluth**—F. B. Johnson will erect a modern residence, this spring.

**Iowa, Sioux City**—Buettler & Arnold, architects, will prepare plans for a modern apartment house for A. F. Nash; 14 4-room apartments, 2-story and basement, laundry, storage rooms, for each apartment, plumbing, hot water heat, brick exterior with stone facing; cost about \$30,000.

**Iowa, Eddyville**—J. C. McCord will erect a modern bungalow, 1-story bath, furnace heat, electric lights, etc.

**Neb., Fairbury**—C. K. Nispel will build a modern residence, 38x48, 2-story.

**Neb., Schuyler**—A modern residence will be erected by Wm. Smith.

**Wis., Milwaukee**—A. L. Gebhardt will build a \$20,000 residence and garage, brick veneer, 40x40, garage, 30x30.

## GARAGES AND BARN

**Wis., Mauston**—Sharp & Denicke, auto dealers, are planning to erect fireproof garage, 65x92, cost about \$12,000, with full machine equipment.

**Wis., Portage**—Chas. Strudenmayer will erect a cement block and timber barn, 32x96, soon as weather permits.

**Wis., Summit Lake**—Plans have been drawn for a barn on Barnard farm in Summit, by E. G. Aitkin of LaCrosse; cost about \$4,000; no contracts yet awarded.

**Wis., Wausau**—Frank Radke will erect a modern barn in the spring.

### BIDS WANTED.

**Minn., Gibbon**—Bids received until April 5, for building and furnishing of materials for garage, 50x140, 2-story, as per plans on file at Johnson & Johnson, Gibbon, or with F. E. Halden, architect, Kasota block, Minneapolis; see official advertisement in the Improvement Bulletin this week.

**Minn., Osakis**—The Osakis Auto Co. will erect modern garage, plans for new building not completed yet.

### CONTRACTS AWARDED.

**Wis., Antigo**—Contract awarded to Emil Schoenfeldt for brick work, plastering, setting of trusses, etc., on the Van Doren and Reed garage.

**Wis., Black River Falls**—Contract awarded to M. J. Schneider, of city, for erection of dairy barn, 36x120, full basement modern, equipment, running water, electric lights, etc., for Hon. C. H. Daum on his farm in Washington township.

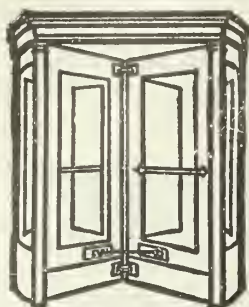
**Wis., Marinette**—Contract awarded to Daniel Nichols, for erection of new barn at the county asylum.

## MISCELLANEOUS

**Minn., Duluth**—Proposals received up to March 2, by U. S. engineer's office, for improvements in harbors and rivers, at Ontonagon, Mich., Harbor of Refuge, Keweenaw Point, Mich., and Harbor of Refuge, Grand Marais, Mich.: Martin Bros., 618 Manhattan building, Duluth, Minn., \$6,261; Corey Bros. Lumber Co., Superior, Wis., \$6,261; James Pryor & Son, Houghton, Mich., \$6,614; J. O. Nessen Lumber Co., People's Gas building, Chicago, \$6,457; G. Elias & Bros., Buffalo, N. Y., \$6,754; Hoquiam Lumber Co., Hoquiam, Wash., \$7,044; A. V. Holahan, Superior, Wis., \$6,457; Lord & Bushnell Co., Chicago, \$7,684; Mutual Lumber Co., Minneapolis, \$7,044; H. B. Waite Lumber Co., Minneapolis, \$6,183; Union Lumber Co., Union Mills, Wash., \$6,370; Henry D. Davis Lumber Co., Portland, Ore., \$6,261; White Star Lumber Co., Whites, Wash., \$6,347; Eatonville Lumber Co., Tacoma, Wash., \$6,574; Chas. L. Spaulding Logging Co., Portland, Ore., \$6,449; Keystone Lumber Co., Minneapolis, \$7,044; Pacific States Lumber Co., Wash., \$7,426; Woodruff Lumber Co., Duluth, \$6,214; Pacific Fir Co., Stuart building, Seattle, \$6,848; Recommended for acceptance, Woodruff Lumber Co.; E. D. Peck, major, engineers.



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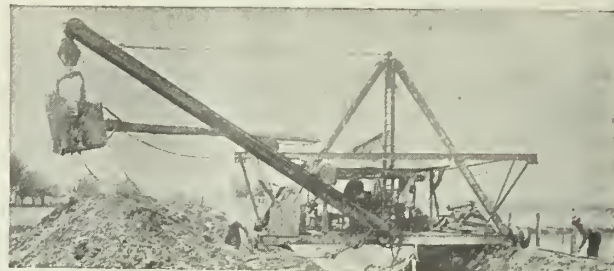
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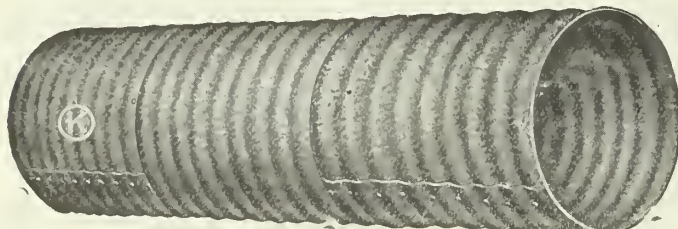
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## NEW FIRMS INCORPORATED

**Can., Calgary**—J. H. Walker & Co., Ltd., \$25,000; Alberta English Investors, Ltd., \$100,000, Cashman Brothers, Ltd., \$50,000.

**Iowa, Cambridge**—Cambridge Packing Co., \$20,000; A. E. Budlong, John L. Osness, H. A. Early, H. V. Weir, Jesse Davis.

**Iowa, Clear Lake**—Clear Lake Laundry, \$10,000; Ed F. Cornell, Martha Cornell, Mary Moreland.

**Minn., Big Fork**—The People's Telephone Co., of Big Fork, \$2,500; Jas. Reid, J. J. Durrell, Z. A. Holsman, Felmer Bjorge, A. E. Peterson

**Minn., Fairmont**—J. H. Gorman Implement Co., \$50,000; Theo. E. Gorman, Theo. R. Gorman, Anna L. Gorman.

**Minn., Minneapolis**—Legal Publishing Co., \$50,000; Willes Eastman, Richardson Phelps, Bronson Wist.

**Minn., Minneapolis**—Minneapolis Bank Fixture Co., \$25,000; Allen S. Miller, Geo. I. Muirhead, Ray I. Gerrish.

**Minn., Minneapolis**—Croweel Land Co., \$10,000; Hubert F. Croweel, Jos. H. Scribner, Frank Croweel.

**Minn., Minneapolis**—Retail Merchants' Association, \$10,000; Mark D. Lane, R. S. Parker, Paul J. Eklund.

**Minn., Kasota**—Breen Stone Co., \$50,000; Thos. R. Coughlan, Ralph D. Fawcett, Thos. M. Coughlan.

**Minn., Minneapolis**—Elliott Therman Film Co., \$15,000; Edward B. Dogulas, Henry Pleatson, John Elliott.

**Wis., Racine**—Wisconsin Machinery Co., \$10,000; Charles Rasmussen, Ralph C. Ingalls, Harold W. Ingalls.

**Minn., Mankato**—Minnesota Pipe & Tile Co., \$50,000; H. K. Cain, D. W. McLaughlin, J. J. Hammen, I. S. Jenkins.

**Mont., Helena**—Musselshell Valley & Grain Co., \$25,000; A. R. Thurston, T. E. Carlson, Ole Paulson.

**Minn., Duluth**—Royal Investment Co., \$50,000; Victoria Anderson, F. D. King, Emma H. King.

**Minn., Glenwood**—Glenwood Lumber Co., \$50,000; J. A. Wedum, Henrik Shipstead, C. O. Ettesvold.

**Minn., Hastings**—South St. Paul Machinery Co., \$25,000; Emil Gardie, Marion M. Hill, J. Lynd Evans.

**Minn., Kerrick**—Kerrick State Bank, \$10,000; M. Bullis, W. P. Hogan, Edward W. Berset, John A. Smith, E. T. Hogan.

**Minn., Kerrick**—State Bank, \$10,000; M. Bullis, W. P. Hogan, E. T. Hogan, J. A. Smith.

**Minn., Kettle River**—Farmers' State Bank of Kettle River, \$10,000; Frank J. Wilson, John H. Mattson, Simon A. Jacobson, Clayton J. Dodge, Fred Hales.

**Minn., Lyle**—Farmers' State Bank, \$15,000; Ed. N. Nelson, K. L. Leidahl, B. F. Muldown, R. C. Rustad, Charles Volsted, Herman Lerud, C. A. Roberts.

**Minn., Madison**—Hotel Lac qui Parle, \$50,000; Chas. F. Thiele, John R. Swann, M. N. Rivers, Robert R. Nelson and A. W. Ewing.

## ☐ DRAINAGE AND IRRIGATION

(Culvert news in this department.)

**Iowa, Estherville**—Bid on ditch 90, Ed. S. Camden, Armstrong, Iowa, \$4,070; No. 26, Peter N. Kruse, Spencer, \$5,670; report indicates contracts were awarded to these bidders.

**Iowa, Missouri Valley**—Engineer W. A. Price has filed his reports and plats and profiles of survey on the establishment of the proposed drainage district as petitioned for by A. D. Annis and others, in Harrison county and a meeting will be held on March 25, to consider the said proposition; J. M. Albertson, auditor of Harrison county, Iowa.

**Iowa, Pocahontas**—Another large joint drainage district will be established in Clay and Palo Alto counties, the estimated cost of which will be \$233,919. The district will drain into Rush Lake and Mud Lake in Clay county and will also be drained by this district; there will be five miles of open ditch and five miles of tiling.

**Iowa, Storm Lake**—A. H. Cunningham has filed his report on drainage district petitioned for by H. L. Anderson and others, and for the one petitioned for by A. M. Erickson; meetings April 6, to consider reports; W. W. Bennett, county auditor.

**Minn., Ada**—Judge Grindeland has been holding hearings on judicial 51, which will cost \$200,000.

**S. D., Watertown**—Contract awarded to the Watertown Cement Products Co. for the dam at the Lake Kampeska outlet; sand fill; cost about \$1,000.

**Wash., Okanogan**—Plans reported prepared by G. J. Gard-

ner, county engineer, for constructing a \$500,000 irrigation system, the canal to run from Night Hawk along east bank of Sinilabekin river, a distance of 3½ miles; and a branch by means of an inverted syphon across river 7 miles to Tonasket; another fork will run from point of diversion over north end of Osoyoos Lake by means of a syphon.

**Wis., Rhineclander**—Clark Kinney, president of the bank of Three Lakes, will drain several thousand acres of marsh land in Three Lakes township.

### BIDS WANTED.

**Minn., Lakefield**—Bids received until 10 a. m., March 24, on judicial ditch 2, estimated cost \$72,881.

**Minn., Le Sueur Center**—Bids received until 2 p. m., April 2, on county ditch 40, estimated cost \$16,337; Thos. F. Dunn, county auditor; check 10 per cent.

### CONTRACTS AWARDED.

**Iowa, Britt**—Contract awarded to E. L. Hatten for continuation districts one and two

**Iowa, Logan**—Contract let to S. O. Briggs, Omaha, for Soldier river ditch \$14,000.

**Iowa, Northwood**—Contract awarded to Wheeling Corrugating Co., Minneapolis, for two carloads of culverts; to Chris Godfredson, of Northwood, for open work, tile laying and filing, ditch 19.

**Minn., Olivia**—Contract county ditch 57, awarded to Kircher Bros., St. Paul, at \$13,990; 10 bidders.

**Wis., Racine**—Contracts let to lowest bidders on redigging and cleaning Mt. Pleasant & Somers ditch; six miles; bids for tile laterals were: National Drain Tile Co., Terra Haute, Ind., \$7,097.25, shale tile; Louis Peterson, Racine, \$7,236.28, clay tile and \$7,392.19, shale tile; Schultz & Bieck, Indiana, \$7,648.20; Larson & Anderson, Racine, \$9,364.27; Hans C. Hanson, Racine, \$9,816.89; Harry Morris, Racine, \$9,999; bids for the open work, or cleaning the canal follow: Cole Bros., Naponee, Ind., \$9,250; C. J. Jones, Chicago, \$9,460; R. H. and G. R. McWilliams, Chicago, \$9,000; Schultz & Bieck, Chicago, \$10,825.40.

## SEWER WORK

**B. C., Vancouver**—City has decided to construct Clark Drive sewer by day labor, at estimated cost of \$319,000; A. D. Baer, chief engineer.

**Iowa, Ida Grove**—Definite action probably soon on a sewer system in north part of town, plans having been completed; address city clerk.

**Iowa, Mt. Ayr**—City is planning a \$30,000 sewer system; address city clerk; E. T. Archer, engineer, Uew England building, Kansas City, Mo.

**Minn., Minneapolis**—Carl Illstrup, city sewer engineer, plans sewers for 1915-6 to cost \$1,000,000; Kossuth E. Alexander, city purchasing agent.

**Minn., St. Paul**—Council has adopted final order for the Payne-Edgerton sewer system at an estimated cost of \$44,583; Aug. Hohenstein, purchasing agent.

**Mont., Belgrade**—Town council are considering plans for sewer system; trunk line estimated at from \$12,000 to \$14,000; address city clerk; citizens will vote on the proposition April 5.

**Mont., Kalispell**—Hearing April 5, on construction of a sewer in special improvement district No. 162; R. E. Rollins, city clerk.

**Nebr., Broken Bow**—Election April 6 to vote on bonds in sum of \$14,500 for a system of sanitary sewers; H. E. Thompson, city clerk.

**Nebr., North Loup**—The city is discussing a sewer system;

**Nebr., Ravenna**—Bonds will be issued for sewer work to amount of \$20,000; address city clerk.

**Nebr., Weston**—City is discussing sewer system; Ferdinand Pacal, village clerk.

**S. D., Mitchell**—Resolution being published creating sewer district No. 1; G. E. Mark, city clerk.

**Wis., De Pere**—Plans and specifications for the big sewer at the Western Steel Works have been adopted and contract will soon be let; to be 7x4.9.

**Wis., Madison**—Street committee has approved sewer system plans for Fair Oaks and West Lawn Heights and council expected to adopt; cost about \$150,000; address city clerk. Wis., for sanitary sewers in various streets.

**Wis., Wausau**—B. C. Gowan, engineer, submitted plans for sewer on 6th st. and wooden conduit at west end of a certain creek sewer, cost to be \$10,000.





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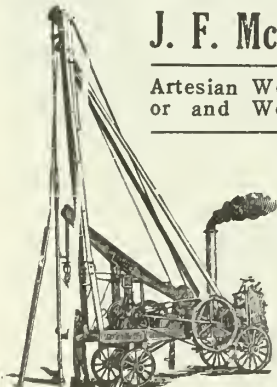
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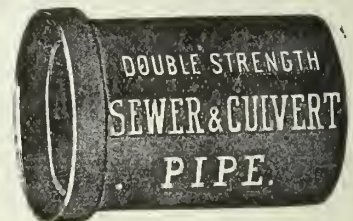
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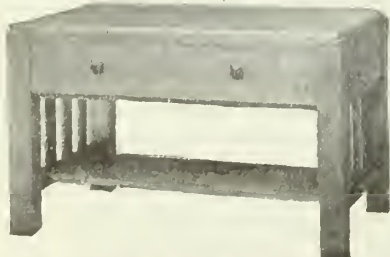
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**BIDS WANTED.**

**Iowa, Grinnell**—Bids received by A. C. Harriman, city clerk, until 7:30 p. m., March 31, for construction of 69,000 feet of 8 to 24-inch sanitary sewers, sedimentation tank, filters and sludge bed; three sections, certified checks for \$1,000 on each, to be completed by Dec. 1; plans at office of city clerk or with Iowa Engineering Co., Clinton, Iowa; same may be had on payment of cost, \$7.50.

**Iowa, Sioux City**—City clerk authorized to advertise for construction of storm sewers in 20th st.; address city clerk.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 29, for sewers in Burr st. and in Baldwin av., two jobs; check for 10 per cent.

**Mont., Roundup**—Bids received by F. A. Appelman, city clerk, until 8 p. m., April 5, for sewer work: 3,208 feet 12-inch, 350 feet 12-inch, including wyes, \$2,957 feet 10-inch, 13,712 feet 8-inch, 44 manholes, 14 flush tanks with Miller automatic syphon, necessary wyes, 540 cubic yards excavation at disposal plant, 55 cubic yards concrete at disposal plant, 167 cubic yards gravel filler; check \$5,000; total cost estimated at \$26,800.

**Wis., Neenah**—Bids will soon be received by H. S. Zemlock city clerk, for a 1,300-foot sewer in the 4th ward and a 1,250-foot sewer in Whitlow st.; 12 and 20-inch vitrified pipe.

**CONTRACTS AWARDED.**

**Iowa, Davenport**—Contract to John Fey for sewer on 17th st. at \$1,075; D. J. Ryan Co., was high bidder at \$1,493.

**Iowa, Onawa**—Contract to O. B. Reynolds, Council Bluffs, Iowa, main outlet and purification plant of new sewer system, involving about \$12,000; sewer laterals will be constructed under separate contract.

**Kan., Osborne**—Contract to Eby Construction Co., Wichita, for sewer system and disposal plant at \$16,203; other bidders were: E. M. Schefflow, Baton Rouge, La., at \$16,570; Tonkawa Construction Co., Kansas City, at \$17,022; Everett & Burt, at \$17,134; Inter-Mountain Co., Tecumseh, Neb., at \$17,345; McCoy & Taylor, Kansas City, Mo., \$17,567; Launder Construction Co., Kansas City, at \$17,183; Squire Construction Co., Kansas City, \$18,500; Arthur & Dobson, \$20,725.

**Minn., St. Paul**—Contract to E. T. Webster, for the Front-McKenty sewer system, at \$53,434.

**Mont., Bozeman**—Contract to S. Birch & Son, for sewer in 7th av.

**Wis., Eau Claire**—Contract to R. L. Rickman for supplying the city with cement pipe to be used in sewer construction this summer.

**STREET AND ROAD WORK**

**Iowa, Clear Lake**—It is expected bids will be asked for soon on paving about two miles of streets and roads, bids to be asked for on both asphalt and cement; address city clerk.

**Iowa, Sioux City**—Bidders for paving W. Riverside av., etc., were as follows: Julius Overson, \$1.02 per square yard; M. L. Flinn Paving Co., at \$1.04; Jensen & Krage, at \$1.07, and Hanlon & Oakes, at \$1.08.

**Minn., Bemidji**—Hearing April 2, on state rural highway No. 9 "C" and state rural highway No. 62; J. L. George, county auditor.

**Minn., Crookston**—City engineer instructed to prepare plans and specifications for grading and graveling on a number of streets; Lewis Ellington, city clerk.

**Minn., Minneapolis**—Bidders for the grading and macadamizing of 4½ miles of the Cedar av. road were: Lamoreaux Bros., at \$26,209; McCoy & Co., at \$17,490; and Mergens & Turnham at \$19,300.

**Minn., Walker**—Hearing March 23 on state rural highways Nos. 81 and 83; C. D. Bacon, auditor of Cass county.

**N. D., Fargo**—Resolutions of necessity have been adopted for paving in districts Nos. 1, 2 and 3; A. R. Watkins, city clerk.

**Wis., Beloit**—Preliminary plans in progress for 100,000 sq. yards paving; G. B. Heebink, city engineer.

**Wis., Berlin**—Low bidders for paving Huron st. are as follows: concrete, C. Johnson, Oshkosh, Wis., \$1.38 per square yard; tarvia X macadam, J. Rasmussen, Oshkosh, Wis., \$1.305; asphaltic concrete, J. Rasmussen, \$1.49; creosote blocks, C. Johnson, \$2.57; brick, C. Johnson, \$2.20; property owners will determine material desired.

**Wis., Delevan**—Plans being prepared for paving five principal streets, and some alleys, requiring 1,662 square yards brick on concrete foundation, 14,700 square yards reinforced concrete pavement, 3,788 cubic yards plain concrete pavement, 4,323 lineal feet curb, 910 alleys, total cost about \$25,000; H. J. Peters, highway commissioner, Elkhorn, Wis.

**Wis., Madison**—Bids will soon be asked for paving on a large number of streets; address city clerk.

**Wis., Merrill**—Resolution passed authorizing paving with brick of West Main st., from the stone bridge over the Prairie to Wright st., etc.; address city clerk.

**BIDS WANTED.**

**Iowa, Corydon**—City council has ordered about two miles of paving, bids to be advertised for at once; address city clerk.

**Iowa, Dubuque**—Bids received by John Ingram, auditor of Dubuque county, until 2 p. m., March 31, for grading and surfacing with gravel the Iowa post road, Dubuque county, for a distance of 20.4 miles, or so much thereof as may be built for \$75,000, to be completed by Dec. 1; contract bond for \$40,000.

**Iowa, Fairfield**—Bids received by A. C. Turner, auditor, Jefferson county, until 1 p. m., April 1, for corrugated iron, boiler iron and cast iron culverts, in sizes 12-inch, 18, 21, 24 and 30; check for 5 per cent.

**Iowa, Le Mars**—Bids received by E. S. Townsend, city clerk, until 8 p. m., April 6, for all cement work in construction of permanent sidewalks, crossings, approaches, culverts, curbing, gutters and gutter arches for the fiscal year running from May 1, 1915, to May 1, 1916; check for \$100.

**Minn., Duluth**—Bids received by R. Murchison, commissioner, until 10 a. m., March 26, for two pneumatic hore-drawn street flushers, 600-gallon; check for 10 per cent.

**Minn., Duluth**—Bids received by O. Halden, county auditor, until 9:30 a. m., April 3, for constructing approximately 3¼ miles of the Miller trunk road, including graveling; bond and sureties required.

**Minn., Duluth**—Bids received by Roderick Murchison, commissioner, until 10 a. m., March 26, for grading and improving Highland st.; check for 10 per cent.

**Minn., Elbow Lake**—Bids received by C. M. Nelson, county auditor, until 1 p. m., March 25, for one elevating grader, two blade graders with 10-foot blades.

**Minn., Minneapolis**—Bids received by Kossuth E. Alexander, purchasing agent, until 3 p. m., March 22, for 5,000 square yards, or any part thereof, of granite paving blocks; also for 20,000 square yards sandstone blocks; checks for \$300 and \$800.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 29, for grading and improvement of three alleys in block 3, Oxford st., Hyacinth st., Burr st., Ivan Way, Mendota st., alley in block 19, in all 7 jobs; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., March 29, for 700 square yards of 4-inch yellow pine, creosoted wood blocks; check for 10 per cent.

**Neb., Alliance**—Bids received by Geo. F. Snyder, city clerk, until noon, March 30, for a large amount of curb and gutter work, estimated by engineers to cost \$5,700.

**Neb., Seward**—Bids received by G. Temple, town clerk, until March 22, for 800 sacks or more of standard cement, to be delivered at Goehner, Neb.; check for \$55.

**N. D., Aneta**—Bids received by C. E. Fodness, city auditor, until April 5, for construction of cement walks and crossings; check for \$50.

**N. D., Bismarck**—Bids received by T. E. Flaherty, county auditor, until 2 p. m., April 7, for completing a certain grade in Menoken and Boyd townships; also, for grading a road across Long Lake, and for three culverts; check for 5 per cent.

**N. D., Ellendale**—Bids received by John King, city auditor, until 8 p. m., April 5, for cement sidewalks and cross walks to be built during season of 1915; check for \$50.

**N. D., Fessenden**—Bids received by L. W. Wigley, city auditor, until 8 p. m., April 5, for cement and wooden sidewalks, and granite or cement curbs, for the year 1915; check for \$50.

**N. D., Fessenden**—Bids received by Fred B. Paul, auditor of Wells county, until 2 p. m., April 6, for road grading in the 2d, 4th and 5th commissioner districts.

**N. D., Grafton**—Bids received by J. H. Johnson, city auditor, until May 1, for construction of sidewalks, alleys, and crosswalks, from May 1, 1915, until March 30, 1916; check for \$100.

**N. D., Jamestown**—Bids received by Andrew Blewett, county auditor, until 2 p. m., April 5, for construction of a trunk line of road, probable amount to be expended is about \$8,000; check for \$500.

**N. D., Kenmare**—Bids received by Evan Griffith, city auditor, for construction of sidewalks and crossings for 1915; check for \$50; specifications at office of city auditor.

**N. D., Kulm**—Bids received by J. L. Shuidhelsz, city audi-



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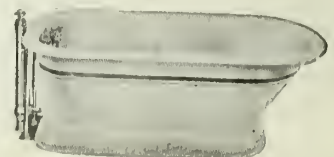


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tor, until 2 p. m., May 5, for cement sidewalks and crossings as may be ordered during the year 1915; check for \$50.

**N. D., Mayville**—Bids received by Henry Leum, city auditor, until 8 p. m., April 5, for cement walks in the city during the year 1915; also curbs and crossings; check for \$50.

**N. D., Minot**—Bids received by A. D. Hagenstein, city auditor, until 8 p. m., April 5, for construction of different kinds of sidewalk to be constructed during 1915; check for \$50.

**N. D., Portland**—Bids received by A. A. Kappang, city auditor, until 8 p. m., April 5, for cement sidewalks during 1915; check for \$50.

**N. D., Steele**—Bids received by J. C. McWhinney, county auditor, until 2 p. m., April 10, for grading county roads according to specifications on file in the office of the county auditor; security bond in full amount of bid.

**N. D., Wahpeton**—Bids received by S. H. Murray, city auditor, until 7:30 p. m., April 5, for sidewalks, curbs, gutters and crossings for the ensuing year; check for \$50.

**Wash., Ephrata**—Bids received by C. T. Sanders, county auditor, until April 5, for water-bound macadam.

**Wash., Seattle**—Bids received by Byron Phelps, county clerk, until March 22, for constructing the Auburn-Enumclaw road, about 20 miles long, and the Renton-Issaquah road, about 10 miles long; total probable cost \$155,000.

**Wis., La Crosse**—Bids received by John Hatz, chairman, road and bridge committee, until 11 a. m., March 26, for two pressure oil distributors with tanks of not less than 600 gallons, and one two-horse street sweeper.

**Wis., Marinette**—Bids received by A. L. Hillis, city engineer, until 2 p. m., April 7, for 11,000 square yards concrete pavement.

**Wis., Milwaukee**—Bids received by Louis G. Widule, county clerk, until March 22, 11 a. m., for 53,100 square yards reinforced concrete paving; 20,000 cubic yards excavation; 135 cubic yards concrete culverts; 16,000 lineal feet combination cement curb and gutter on Beloit, Mukwanago and Watertown roads, Milwaukee county highway system; the work covers about 5.2 miles; H. J. Kuelling, county highway commissioner.

**Wis., Prairie du Chien**—Bids received by city clerk until April 14, for paving six squares in down town district, either asphalt, brick, concrete, tarvia or other types.

#### CONTRACTS AWARDED.

**Iowa, New Hampton**—Contract to Bryant Asphalt Paving Co., Waterloo, Iowa, for 75,000 square yards paving at \$1.59 per square yard and 35c per foot for curbing, and to Hanlon & Oakes, Sioux City, for Portland cement paving at \$1.44 per

**Mich., Calumet**—Contract to Smith, Byers & Sparks of Houghton for the Keweenaw county road from North Cliff to Eagle River, the road to be 16 feet wide and include 4 bridges, at \$19,998; the bid was \$1,500 lower than any other received.

**Minn., Forbes**—Contract to J. Kaukka for the 3-mile road between Forbes and the Hibbing road at \$3,800; there were 13 bidders.

**Minn., Little Falls**—Contract to R. P. Albert, Onamia, for grubbing and clearing of four miles of state road No. 3, at \$947.

**Mont., Missoula**—Contract to J. C. Maguire, of Lewistown, for paving with standard bitulithic, at \$28,771; other bidders were: G. H. Nash & Co., city, at \$29,873; Warren Construction Co., Portland, Ore., at \$30,119.

**Neb., Columbus**—Contract to Wm. Harrabin, Des Moines, Iowa, for bitulithic paving at \$1.94 per square yard; estimated cost complete at \$97,000; curbing went to Meyers & Luers, city, at 31¼c per lineal foot, estimated to cost \$3,800.

**Ore., Portland**—Contract to Giebisch & Joplin for gravel bitulithic pavement on Oregon and E. 23d st. at \$10,199.

**Wash., North Yakima**—Contract to Cascade Construction Co., city, for grading and graveling road at \$2649.

**Wis., Delavan**—Contract to Barker Lumber Co., city, for 7,100 barrels Portland cement at \$1.71 per barrel.

**Wis., Mt. Horeb**—Contract to Nicholas Quinn, 515 W. John concrete pavement, 3,788 square yards plain concrete pavement, one-course, at 96c; 7,452 lineal feet curb and gutter at 38c; a total of \$21,359; pavement is 7 inches in average thickness and expansion joints are Baker steel plates with asphaltic felt between (¼-inch thick); about one third pavement is reinforced with A. S. & W. Co. No. 26 in. mesh; county will furnish cement.

**Wis., Oconto**—Contract with Standard Oil Co. for from two to five tank cars of No. 4 road oil at 3.71c per gallon.

**Wis., Sheboygan**—Contract to Magnus Peterson for paving Weeks av. with concrete at \$25,083.

**Wis., Superior**—Contract to John Diffor for repaving N. 4th st., etc., local contractor.

**Wis., Watertown**—Contract probably to Lehmann Bros., city, for 8th st. concrete paving, at \$8,704; other bidders were:

Jensen & Jensen, Chicago, at \$9,462; H. G. Goebitz, Oak Park, Ill., at \$9,522; G. Stanchfield, Fond du Lac, at \$9,776; Geo. Welch, Beloit, at \$10,040; E. L. Bartlett, city, \$9,403; there will be 1,507 cubic yards excavation, at 33c, 3,735 feet curb and gutter at 53c, and 3,510 square yards paving at \$1.26.

**Wis., Waupaca**—Contract to Western Road Machine Co. for one 10-ton gasoline motor roller, one crusher plant, one 400-gallon sprinkling wagon, three railroad plows, six wheel scrapers, two rooper plows and one 10-ton lifting jack, amounting in all to \$4,686.

## BRIDGES

(Culvert news in this department.)

**Iowa, Iowa City**—Hearing March 22, on new concrete bridge on Burlington st., across Ralston Creek, cost \$2,400; also 21 other culverts and bridges in county.

**Iowa, Des Moines**—Board of supervisors of Polk county has ordered county engineer to prepare plans for 14 new bridges to replace those destroyed by the recent ice jams and floods, to be built under supervision of state highway commission.

**Iowa, Tipton**—About 75 bridges and culverts were included in the letting to be held March 30, by county board; check 5 per cent; T. C. Moffitt, county auditor.

**Minn., Lancaster**—Engineer was authorized to have bridge built across the state ditch No. 50, between sections 12 and 13; also one across ditch No. 11, between sections 1 and 12.

**Minn., Mankato**—State highway commission has appropriated \$8,000 for Blue Earth county, for erection of bridge over the Minnesota river, address District Engineer Gallagher.

**Minn., Palisade**—Five townships have petitioned county commissioners to construct a bridge over the Mississippi river here, cost of steel, \$11,000, by state highway commission.

**Minn., St. Paul**—Council has adopted ordinance requiring the Great Northern and Omaha roads to repair southerly span of Westminster st. bridge.

**Minn., Wegdahl**—County commissioners have petitioned legislature for an appropriation of \$8,000 for bridge over the Minnesota river.

**Mont., Dixon**—Resolved by the county commissioners of Sanders county that funds be appropriated for erection of a steel bridge across the Flathead river; J. W. Gladden representative.

**Mont., Hardin**—Special election will be held June 1, to vote on issue of \$50,000 bonds for construction of bridges, as follows; one across Big Horn, at Hardin, across Little Horn, at Hardin and Wyola, and one across Tongue river.

**Mont., Livingston**—Work will begin at once on construction of bridge over Yellowstone river, steel; C. T. Heaton, in charge.

**Wis., Racine**—Jos. J. Patrick, county clerk, will take sealed bids until March 25, 2 p. m., for construction of a reinforced concrete and steel bridge at Horlick's Mill, 3-span, 27 feet 4 inches clear openings, 20-foot roadway, one 5-foot walk, requiring 685 cubic yards concrete and 20-tons of steel; plans by F. M. DeBerard, Pereles building, Milwaukee.

**Wis., Racine**—Bids will be in March 25, on bridge over Root river at Rapids; cement arch type; address Commissioner Mutter.

**Wis., Grand Rapids**—County highway commissioners have awarded the general contract for construction and erection of all steel bridges on county highway system in 1915, to the Worden-Allen Co., Milwaukee.

#### BIDS WANTED.

**Iowa, Des Moines**—Bids received until April 1, for concrete culverts at Locust and 18th st., reinforced concrete, 8x9½-foot span; plans in progress; J. N. Carss, engineer; care of owner.

**Iowa, Des Moines**—Bids received until April 1, for reinforced concrete culvert at 39th st. north of University, 4x6.5 foot span; plans in progress by Engineer J. N. Carss; care of owner; bids taken by Clerk H. Lusong, City Hall.

**N. D., Bismarck**—Bids received until April 7, 2 p. m., for three concrete culverts on road along Long Lake; plans with county surveyor; check 5 per cent; T. E. Flaherty, county auditor.

**N. D., Hillsboro**—Bids received until April 6, 2 p. m., for building and furnishing material for erection of all steel, concrete and wooden bridges in county for 1915; check \$100; Nels O. Lindass, county auditor, Traill county.

**S. D., Leola**—Bids received until 3 p. m., April 6, for 12 to 72-inch galvanized corrugated steel culverts; address J. R. Wittmayer, county auditor.

**S. D., Sisseton**—Bids received until March 30, for construc-



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tion of concrete culvert wings, as follows: one 10x30, and one 10x20, on town line; section 12; one 9x26, and one 9x22, on line between section 12 and 13, and two 11x30, on line between section 13 and 14, all walls to be 1 foot thick; Albert Dahlin, clerk, Drywood Lake township.

**Wis., Washburn**—Bids received until March 28, 10 a. m., for concrete culverts between sections 13 and 14, township 48; plans at office of Town Clerk M. S. Miller; A. P. Stone, chairman, board of supervisors.

#### CONTRACTS AWARDED.

**Iowa, Belle Plaine**—Contract for the erection of new 50-foot span steel bridge over Prairie Creek was awarded to Missouri Construction Co., at \$2,015.

**Iowa, Council Bluffs**—Contract awarded to H. A. Quinn Lumber Co. of Council Bluffs, for lumber and other supplies for bridge work in county in 1915.

**Iowa, Dubuque**—Contract awarded to J. J. Leonard, for construction of 122 bridges and culverts in county, at \$36,100.

**\*Iowa, Keosauqua**—Contract awarded to Midland Metal Co., Ottumwa, Iowa, for corrugated culverts for 1915; contract for bridge lumber for 1915, Van Buren county, let to Wheeler Lumber Co., Des Moines, at \$48 to \$60 per thousand. W. H. Eiforth, auditor.

**Minn., Shakopee**—Contract awarded to the Continental Bridge Co., Peotone, Ill., at \$1,251 for state bridge No. 1,504, state road No. 4, other bids were: M. A. Adams & Co., Minneapolis, at \$1,367; Minneapolis Bridge Co., Minneapolis, \$1,495; New Prague Foundry Co., New Prague, \$1,800; Wm. O'Shea & Sons, Minneapolis, \$1,369; Hewitt Bridge Co., Minneapolis, \$1,352; Whitewater Bridge Co., Minneapolis, \$1,448; Iowa Bridge Co., \$1,352; Henry Goldschmidt, Chaska, Minn., \$1,755.

**Minn., Waconia**—Contract awarded to M. A. Adams & Co., Minneapolis, Andrus building, at \$470, for concrete culvert on state road No. 2.

**Mont., Billings**—Contract awarded to Davis & Clark, contractors, for four timber bridges over dry coulees on Grisey road.

**Mont., Bozeman**—Contract awarded to the Minneapolis Bridge Co., Minneapolis, at \$2,763, for steel for bridges in Gallatin county; other bids were: Russell Grader Co., Minneapolis, at \$3,761; O. E. Peppard, Missoula, \$3,737; S. Birch & Sons, Bozeman, \$3,435; Minneapolis Steel & Machinery Co., Minneapolis, \$2,865; Penn. Bridge Co., Beans Falls, Penn., \$3,645; Iowa Bridge Co., Minneapolis, \$2,763; Fred M. Brown, engineer.

**Wis., Merrill**—Following contracts awarded on bridges and culverts for year: Landwehr bridge in township of Como, to Mike Lynch, of New Richmond, Wis., at \$532; Smith bridge in township of Pine River, Wis., to Wausau Iron Works, at \$443; also Brownbridge in same town, at \$1,298; Pine Creek bridge, township of Skanawan, Al. Trayman, of Bloomville, Wis., \$500; Gruenwald bridge in township of Scott, John Ament, at \$525; Rell bridge, township of Tomahawk, Mike Lynch, New Richmond, \$512; Bohag bridge, township Russell, to Worden & Allen Co., Milwaukee, \$1,062; three culverts, two 6-foot span and one 24-foot by 24 inch, township Somo, Mike Reube, of Tomahawk, at \$475.

**Wis., Sauk Creek**—Contract awarded to Jos. Ubbink of Port Washington, for concrete arch bridge in Ozaukee county, John Richler, clerk; county auditor, Port Wash.; Engineer Tarkelson, bridge engineer, Capital building, Madison.

**Wis., Superior**—Contract awarded to the Russell Construction Co., for culvert on Hill av., at \$1,290.



## WATER WORKS



**\*Iowa, Linn Grove**—The \$9,000, fifteen-year water works bonds have been purchased by Schanke & Co., of Mason City. Contract for construction to be awarded soon.

**Iowa, Lowden**—Town council has decided to hold an election to vote on installation of water works system.

**Iowa, Muscatine**—Water main extension will be made soon as the weather permits.

**Iowa, Nevada**—Nevada Commercial club has decided to vote bonds in sum of \$15,000 to increase water supply of town.

**Iowa, Onslow**—A petition has been circulated for a water works system.

**Kans., McCune**—Heurici Kent and Lowry Engineering Co., 715 Reserve Bank building, Kansas City, Mo., have been engaged as consulting engineers in connection with the construction of a water works system; a well has been sunk to depth of 1,200 feet; date of letting remainder of contracts has not been set; depending on test of well.

**Mont., Phillipsburg**—C. H. Green & Co., of Spokane, Wash., has been engaged to prepare plans for a water works system; cost about \$15,000.

**Neb., Broken Bow**—A meeting will be held April 6 to vote on issuance of \$6,000 bonds for water works extension.

**Neb., Hemingford**—At election last week proposition of water works system was voted and carried.

**Neb., Knoxville**—Pella city council has decided to issue water bonds in sum of \$10,000.

**Neb., Shubert**—Proposition is being discussed for installation of a water works system here.

**Neb., Tecumseh**—Proposition of installing a water works system at Cook was voted and carried.

**N. D., Sykeston**—Election will be held March 16 to vote on water works proposition; cost about \$14,000.

**S. D., Deadwood**—Special election will be held April 20, to vote on issue of \$75,000 bonds for water works system.

**S. D., Lantry**—Fire destroyed the pumping station here; a new engine will be installed.

**S. D., Oelrichs**—Town is agitating question of a water works system.

**S. D., Sioux Falls**—Daubney H. Maury of Chicago, engineer, has recommended the following improvements to the water works plant: equipment of wells 3 and 4, \$1,800; reservoir at pumping station, \$17,000; iron removal plant, \$1,500; three 20-inch valves, \$900; one or two oil pumps, \$37,500; one stand pipe, \$16,000; 100 additional hydrants, \$5,000; two pumping units, two iron removal pumping plants, \$1,500; roof over standpipe, \$250; additional vacuum pump, \$250; extensions, \$30,315; engineering and contingencies, \$11,485; total, \$175,000.

**\*S. D., Deadwood**—City will vote on water bond issue of \$75,000 for water works at spring election. It is proposed to construct three reservoirs.

**S. D., Deadwood**—City plans building a water works consisting of two auxiliary and settling reservoirs, 1,180,456 gallons and 2,395,518 gallons respectively; two filter beds, 284,000 gallons each, and a main reservoir, for filtered water, of 5,957,192 gallons, estimated cost \$73,566; Frank S. Peck, engineer.

**Wis., Bloomington**—Village of Bloomington will sell 4½ per cent bonds in sum of \$10,000 for construction of a water works system on March 29, 1915; Louis P. Wolff, consulting engineer, 1000 Germania Life building, St. Paul, Minn.

**Wis., Cudahy**—City will construct 1,213 feet lineal, of 6-inch water mains, in Holmes av., including two hydrants; average depth, 6 feet; Jerome C. Dretzha, city clerk.

**Wis., Eau Claire**—About \$6,000 will be expended on improvements of the water works system.

**\*Wis., Elkhorn**—The F. M. Gray Water Supply Co., M. & M. Bank building, Milwaukee, is low bidder on the construction of the new artesian well at \$3,625; contract will not be awarded until Mar. 23.

**\*Wis., Elk Mound**—Elk Mound will vote at spring election on installation of a water works system.

**\*Wis., Milwaukee**—The Allis-Chalmers Manufacturing Co., Milwaukee, has booked an order for five verticle triple-expansion pumping engines of the Riedler type, for Chicago water works system. Cost about \$450,000.

**Wis., Two Rivers**—Common council has voted in favor of constructing an intake in Lake Michigan, instead of drilling additional shore wells for extension of source of the municipal water works system; city engineer has been directed to prepare plans and specifications for cast iron pipe intakes main from 2,750 to 4,000 feet in length and submit estimates; work to begin this year.

**Wis., West Allis**—Common council has directed city engineer to prepare plans and estimates for changes and extensions of the pumping system to include new centrifugal pump of 2,000 gallons per minute capacity, electrical operation.

#### CONTRACTS AWARDED.

**\*Iowa, Albion**—Bids will be received until 2 p. m., April 2, for approximately 865 feet 4-inch water mains. Check for \$200. Geo. Browder, city clerk.

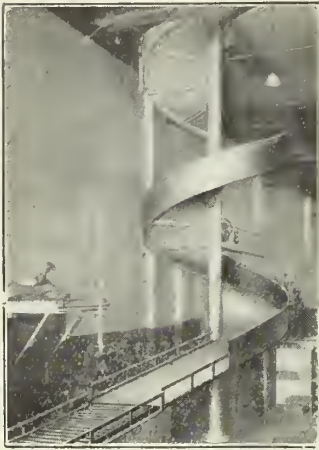
**\*Minn., Duluth**—Bids received until Mar. 25, 11 a. m., for laying of water mains in various parts of the city. Check for 10 per cent. C. S. Palmer, clerk.

#### CONTRACTS AWARDED.

**Minn., Tracy**—Contract awarded to J. G. Rea of Tracy for installation of 13,000 feet water mains at \$10,000.

**Wis., Milwaukee**—Contract awarded to Michael O'Donnell, 1215½ Clybourn, Milwaukee, for laying cast iron water pipe, at: 6-inch main 34c, 8-inch 37c, 12-inch 57c, 16-inch 70c, per lineal foot; other bids were: Jos. B. Forrestal, 215 15th st., Milwaukee, 6-inch 34c, 8-inch 40c, 12-inch 57c, 16-inch 73c, per lineal foot; Herman Hohensee, 965 27th st., Milwaukee, 6-inch 36c, 8-inch 44c, 12-inch 59c, 16-inch 87c.





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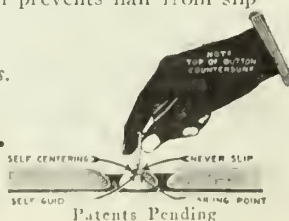
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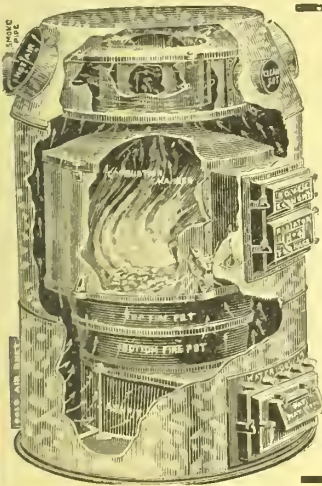
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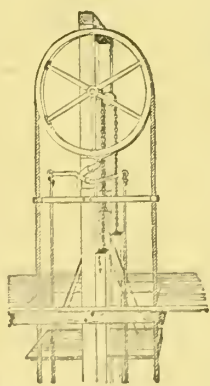
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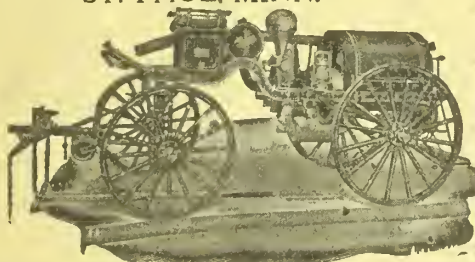
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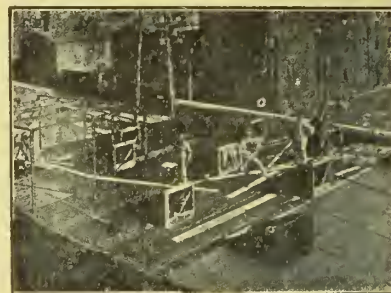
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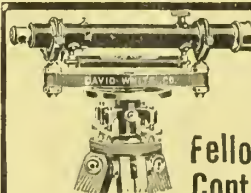
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Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graft Lumber Co., Duluth, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Northland Pine Co., Minneapolis, Minn.  
N. W. Building Material Exhibit, Minneapolis, Minn.  
The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Palme & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
G. A. Turner, Minneapolis, Minn.

## CALKING PASTE.

Minnesota Weatherproof Calking & Glazing Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.

## CEMENT.

Atlas Portland Cement Co., Minneapolis  
Carney's Cement Works, Mankato, Minn.  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
N. W. States Portland Cement Co., Mason City, Iowa  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Snakes Lime & Cement Co., Superior, Wis.  
Northland Pine Co., Minneapolis, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Universal Portland Cement Co., Minneapolis

## CELLS, STEEL.

Builders Iron Works, St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co., St. Paul, Minn.

## CEILINGS, STEEL.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Canton Steel Ceiling Co., Minneapolis, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis  
H. C. Thomas & Bro., La Crosse, Wis.

## CEMENT FILLER.

Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## COAL CHUTES.

American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis  
Crown Iron Works Co., Minneapolis  
Enterprise Iron Works, Albert Lea, Minn.  
Fowler & Pay, Mankato, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

## COLD STORAGE PLANTS.

Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.

## CONCRETE CONSTRUCTION.

Avery Steel & Iron Co., Minneapolis  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

## CONTRACTORS' LEVELS AND SUPPLIES.

David White Co., Milwaukee, Wis.

## CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.  
Badger Concrete Mixer Co., Milwaukee, Wis.  
Praegstad Concrete Mach. Co., Canton, S. D.  
Cement Tile Machinery Co., Waterloo, Ia.  
Chain Belt Co., Milwaukee, Wis.  
Contractors Machinery Co., Keokuk, Iowa  
Jaeger Machine Co., Columbus, O.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
The Lansing Co., Minneapolis, Minn.  
N. W. Concrete Steel Co., Minneapolis  
Raymer Hardware Co., St. Paul, Minn.  
The T. L. Smith Co., Milwaukee, Wis.  
N. W. Steel & Iron Works, Eau Claire, Wis.  
Russell Grader Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.  
Chas. H. Stehling Co., Milwaukee, Wis.  
Waterloo C. Mach. Corp., Waterloo, Ia.  
and W. H. Hale & Co., Minneapolis, Minn.  
Ellis Woolman, Minneapolis, Minn.  
E. Wege Concrete Machinery Co., La Crosse, Wis.

## CONCRETE REINFORCING BARS.

Avery Steel & Iron Co., Minneapolis  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

## CORNICES.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

## CORRUGATED IRON, ETC.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Avery Steel & Iron Co., Minneapolis  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.

## CONCRETE REINFORCING.

Berger Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Russell Grader Co., Minneapolis, Minn.

## CONTRACTORS' SUPPLIES AND MACHINERY.

Decker Hardware Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Ellis Woolman, Minneapolis, Minn.

## CULVERTS.

Berger Mfg. Co., Minneapolis, Minn.  
Blesanz Stone Co., Winona, Minn.  
Gallon Iron Works, Minneapolis, Minn.  
Klauser Mfg. Co., Duquoin, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Russell Grader Co., Minneapolis, Minn.

## CRUSHED STONE.

Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Duquoin, Ia.  
Manterville Stone Co., Manterville, Minn.  
New Elm Stone Co., New Elm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Wildell Co., Mankato, Minn.

## READENING MATERIAL.

Cement Tile Machinery Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa

Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

## DECORATIONS.

Odin J. Oyen, La Crosse, Wis.

## DITCHING MACHINES.

Bay City Dredge Works, Bay City, Mich.  
United Iron Works, Springfield, Mo.

## DREDGES.

Bay City Dredge Works, Bay City, Mich.

## ELECTRICAL ENGINEERING.

Beck Electrical Construction Company, Minneapolis, Minn.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

## ELECTRIC MOTORS AND SUPPLIES.

Beck Electrical Construction Company, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

Minneapolis Electric Equipment Co., Minneapolis, Minn.

Sterling Electric Co., Minneapolis, Minn.

## ELEVATORS AND ENCLOSURES.

Kimball Bros Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

## ENGINEERS.

Oscar Claussen Engineering Co., St. Paul, Minn.  
Walter H. Flood, Chicago, Ill.

Lewis A. Larsen, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.

L. P. Wolff, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.

Cowles-Vandanaer Co., Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

## EXCAVATORS.

Bay City Dredge Works, Bay City, Mich.

## FIRE ESCAPES.

Avery Steel & Iron Co., Minneapolis  
Builders Iron Works, St. Paul, Minn.  
Crown Iron Works Co., Minneapolis  
Des Moines Structural Steel Works, Des Moines, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

## FIRE HYDRANTS.

Waterous Engine Works Co., St. Paul, Minn.

## FIREPROOF DOORS.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Thorp Fireproof Door Co., Minneapolis, Minn.

## FLUE LINING.

Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis  
Northwestern Lime Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

## FIRE PROTECTION APPARATUS.

Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

FIREPROOFING DOORS AND SHUTTERS.  
Haakinson & Beatty Co., Sioux City, Iowa  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

## FLOORING.

Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Fama Stonewood Co., Minneapolis  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graft Lumber Co., Duluth, Minn.  
Northland Pine Co., Minneapolis, Minn.  
I. Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.

## FLOOR SURFACING MACHINES.

M. L. Schlueter, Chicago, Ill.

## FURNACES.

Bovee Furnace Works, Waterloo, Iowa  
Gibson Mfg. Co., Waterloo, Iowa

## FURRING.

Corrugated Bar Co., St. Paul, Minn.  
Jerdex & Hendrickson, Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

## GLASS.

American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis, Minn., and St. Paul, Minn.

## GRAVITY CARRIER.

Minnesota Manufacturers' Association, North St. Paul, Minn.

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W. H. Lutton Co., Minneapolis, Minn.

## HARDWARE TRIMMINGS.

Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morrison & Co., Minneapolis  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

## HEAT REGULATORS.

Andrews Heating Co., Minneapolis, Minn.

## HEATING AND VENTILATING.

Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.

## HOISTS.

H. W. Johns-Manville Co., Minneapolis  
Koehring Machine Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## HOSE.

Gardner Hardware Co., Minneapolis, Minn.





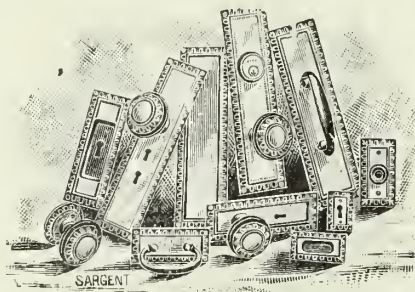


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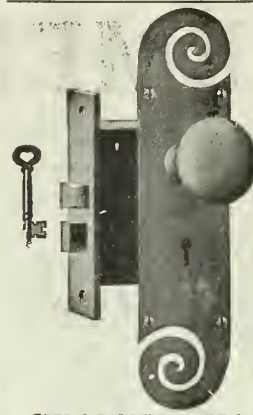
*Large Drain Tile*

*Sewer Pipe*

*Well Pipe*

*Flue Linings*

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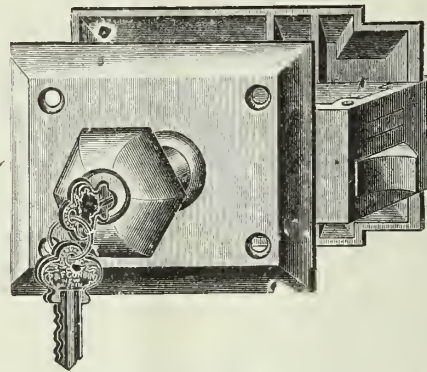
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

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SATURDAY, MARCH 27, 1915

NUMBER 17

## EDITORIAL

O. L. COLBURN, Editor

### IMPORTANT GATHERING OF BUILDING INSPECTORS.

The conference of building inspectors and building commissioners of the U. S. at the Astor Hotel, New York City, May 14, promises to be one of the most important meetings of these officials yet held. The meeting will follow immediately after the meeting of the National Fire Protective Association, at the Astor Hotel, May 11-13. The building inspectors will discuss such matters as technical details of fire protection, sanitation and structural safety; administration and relation between state and city authorities; field inspection; rigid rules versus discretionary power; educational methods by which building inspectors can gain support of civic bodies and individuals for better understanding of fire provisions and sanitation.

No topic of this list is likely to cause more lively discussion than the question whether the building inspector should follow a practice of using his judgment to a certain extent; or a practice of strict administration of the letter of the law. It will be conceded that cities should have trained, careful, capable men at the head of their building bureaus. Such men can be trusted to use their discretion to some extent, at least; and the operation of ordinances cannot, in human foresight, be seen entirely advance. There are other arguments for the side of discretionary power. The conclusion of the meeting on this point will be interesting.

The committee in charge of the arrangements for the building inspectors' gathering is composed of R. P. Miller, formerly New York city superintendent of buildings; V. D. Allen, Cleveland, commissioner of buildings; J. G. Houghton, Minneapolis, building inspector; S. A. Dies, Pittsburg, superintendent of buildings; N. A. McIver, Edmonton, inspector of buildings; Sidney J. Williams, Madison, Wis., state building inspector.

### A SUDDEN INCREASE IN FLAT BUILDING CONSTRUCTION.

Within a few weeks permits for flat building in Minneapolis have become very numerous. Nearly all have been for structures devoted to kitchenette apartments. Two reasons for the new activity are suggested, the coming event of the Housing bill casting its shadow before; and a normal rate of interest on borrowed money.

Architects are beginning to study the new requirements which the Housing bill would put into building law and there are other indications of a general impression that the proposed law will pass. This bill has been endorsed by the contractors' organization, the Minneapolis Builders' Exchange.

### NEBRASKA ARCHITECTS FOR NEBRASKA BUILDINGS.

After a lively controversy by members of a committee of the Nebraska state senate the Bedford bill (S. F. 255) was recommended for passage. It requires the university regents and state board of control to engage Nebraska architects only. Action was precipitated largely by regents giving a \$130,000 building to an outside architect. An interesting argument was offered by a member, who is quoted as saying: The president of the National Association of Architects lived in Omaha and that architects have a uniform scale of prices and therefore nothing could be gained by going out of the state. Two members said the field should be left open to all, but the open-door policy was unpopular. One senator said republicans should take their own protection medicine and support the bill.

Thus proceeds the making of law in the popular assemblies of the enlightened free country.

### THE MINNESOTA LEGISLATURE AND CONSTRUCTION.

Senator Samuel B. Nelson of Luverne, Rock county, has introduced a bill which would make counties railroad builders; and to some extent introduce government-owned railroad mileage. This bill (S. F. 472) authorizes counties to construct railway tracks connecting county buildings with railroads running near such buildings. The bill says: In all cases where county buildings, or buildings in which a county is interested with other counties, are situated upon land adjacent to or near a railway track, such county, to-wit: The county in which such buildings are located, may pay from the general revenue fund thereof, or from any money raised by such county in excess of its proportionate share for any such institution, the costs of procuring a right-of-way for and the building of a branch track suitable for the transportation thereon from said railway track to such buildings of any or all articles and commodities needed by said institution and of persons going to and from the same.

A liberal ruling on "near" in this proposed law might result in freight and passenger lines of some length built and run by county commissioners.

Representative Charles L. Stevens, of Warren, Marshall county, has introduced a bill, which seems likely to pass, for legalizing certain changes in digging drainage ditches. The bill says: Whenever a public drainage ditch has been established in pursuance to the drainage laws of this state and a general contract of construction thereof has been duly entered into, and during the course of construction thereof, the engineer has caused the said ditch or any branch or lateral thereof to be built or constructed at a different point of location or along a different course, or with a different source or outlet than as designated in the original report of the engineer in said ditch matter or as duly established by the judge of the district court or the county board, or where ditches in such system other than or in addition to those duly established have been actually dug and constructed as a part of said drainage system, then and in that case, or either or any of them, such ditch and such branches or laterals thereof, and such additional ditch or ditches so dug and constructed are hereby legalized and made valid at such place of actual construction to the same extent and with like effect as if there established and located and ordered to be constructed by the final order establishing said ditch; provided, that if any person or parties whose lands are affected by any such change of source, of course or outlet of any such ditches or by such additional ditches, claims addition damages to such lands then as originally awarded or claims reduction of assessment of benefits thereto then and in any such case such person shall within sixty days after the passage of this act make application to the district judge or county board which established said ditch to have his claim for such additional damages or reduced benefits considered and determined.

### A BOOST FOR INTERSTATE DRAINAGE.

Iowa and Minnesota are showing active interest in interstate drainage. Gov. Clarke has announced the appointment of Representatives L. L. Bingham and John W. Sullivan and Senators J. B. Robinson as a committee to confer with a like committee from the Minnesota legislature relative to legislation which would improve interstate drainage. The people of northern Iowa are especially interested in the proposition.

### LOCAL ARCHITECTS AND TRAVEL.

A critic of architecture of good residences in the Twin Cities thinks the local architects do not travel enough. If the practice increases which has been exemplified by going out of town for plans for such buildings as the Soo-First National and Merchants' National Bank skyscrapers, the Art Museum, the St. Paul public library, the Great Northern station, House of Hope church and Union depot, St. Paul; and if the growing practice of building business buildings and flats without architects, continues to thrive, the local architects may not travel at all.



# A Suggested Warning Against Cold Weather Concreting

Sir: The writer read with much interest the article in Engineering News of Dec. 31, 1914, on the failure of the Hippodrome Arcade at Youngstown, Ohio. Of especial interest are the temperature curves.

In this connection the writer would quote from a signed article by C. A. P. Turner appearing in your issue of Dec. 24, 1911, giving the standard specifications used by him as follows:

Whenever the temperature drops below 45 degrees F., and before it reaches the freezing point, the water used in the mix shall be heated to 110 degrees F.

The best portland cement is readily chilled and becomes dormant at temperatures materially above the freezing point and workmen, considering that no harm is done providing the concrete does not freeze, are prone to regard two weeks' time in the chilly fall weather as the equivalent of two weeks' time in the dry summer with disastrous results. The simple precaution of waking up the cement by the use of warm water in the mix causes it to deport itself more nearly as it does in the summer season.

If on the Youngstown temperature chart the line marking temperature 45 degrees is made a heavy one, it will be seen that on 16 of the 30 days preceding the accident the temperature fell below Mr. Turner's critical 45 degrees and that 7 of these 16 immediately and consecutively preceded the day on which the failure occurred.

While the area below the 45 degrees line is small it reduces by just so much the positive area above the line; so that it seems not by any means a far-fetched conclusion to charge this failure to the slow setting of cement due to temperature even though much of the time there was little freezing.

The writer does not pretend in this letter to be adding anything new to the subject of concreting, but merely to lay some additional emphasis on the fact that it is temperature 45 degrees, and not 32 degrees, on which the engineer and contractor must keep their eyes if they would avoid trouble.

Those who have traveled through forest reserves of the west cannot have failed to observe the notices, some of them displaying no little originality in their get-up, warning campers and others against the danger of starting fires.

Something of this nature might with advantage be adapted by building inspectors for, say, postal-card distribution, to warn contractors of the danger of concreting when the temperature is below 45 degrees, or possibly some building inspectors need some such alarm clock themselves. Possibly, too, some of our friends, the cement manufacturers, could help by giving away advertising thermometers with the critical 45 degrees in large red figures or otherwise conspicuously marked.

H. A. RANDS.

Portland, Ore., Feb. 11, 1915.

—From Engineering News.

## MICHIGAN ARCHITECTS' BILL.

In explanation of the bill, now pending before the Michigan legislature, which provides for regulating the practice of architecture in Michigan, by requiring registration of architects, and provides also for the appointment by the governor of a board of examiners, a Detroit architect says:

"The bill is presented as an educational measure, and is designed to gradually raise the standard of qualifications for the practice of architecture without in any way interfering with the rights of those now engaged in its practice, and without interfering with contractors or others who may wish to make drawings for their own work without the assistance of an architect.

"The bill has the indorsement of the University of Michigan, the Associated Builders' Exchanges of Michigan, the Michigan chapter of the American Institute of Architects, and the Architects' Business Association of Michigan. The bill is intended to give the public an assurance against incompetent practitioners, and is entirely in the interest of safe building.

"It can be maintained without fear of successful contradiction that not one of the professions, trades or callings now under state supervision touches the public welfare in more numerous and vital points, nor is there one upon which the safety of life and property, health and happiness of the public depends than upon the architectural profession. If then, the state has deemed it wise to establish a certain standard of education and fitness in professions and occupations not so important as the practice of architecture, it should establish, by a registration law, a similar requirement for the practice of architects."

## IT IS "WEATHERPROOF CALKING CO." NOW

The Minnesota Weatherproof Calking & Glazing Co., calking contractors, 757 Washington av. N., Minneapolis, has changed its name to "Weatherproof Calking Co." After more than ten years' of experience in calking frames to prevent leakage of drafts, dust and rain, the company is better prepared than ever before, to guarantee to their patrons satisfactory work.

The company now has branch offices established in St. Paul, 503 Pioneer building, Chicago, 231 Insurance Exchange building, and New York, 309 W. 139th st. Contracts for calking recently taken are: New Walnut exchange, N. W. Telephone Co., and new biology building, state university, Minneapolis, Lindeke-Warner & Sons Co. building, A. W. Lindeke, president, A. H. Lindeke residence and Jacob Dittenhoffer residence, St. Paul, Banker building, Omaha, Neb., Grinnell college, new dormitory, Grinnell, Iowa, the 12-story Stahlman office building and Hermitage club building, Nashville, Tenn., and the Oliver hotel, South Bend, Ind.

## BUSINESS SHOULD NOW GO FORWARD.

Business began to halt in the United States two years ago because of an impending change of administration at Washington; it continued to halt because of an impending change in the tariff; it kept on halting because of anti-trust legislation and an impending change in the banking and currency system; it actually stood still temporarily on the outbreak of the European war, because of the belief that the investing and creditor nations would make a raid on the gold reserve. All this is past and gone. The Democratic administration did not overturn things; it removed all uncertainty regarding the tariff; it gave the country nothing more extreme in anti-trust legislation than had been received from two previous Republican administrations; it reorganized the banking and currency system along lines that have been pronounced satisfactory by the moneyed interests; it has carried the gold reserve safely through the crisis.

Moreover, the tariff question is out of the way for some years to come, and importers and manufacturers know exactly on what basis they can make their calculations; the banking and currency question is out of the way, and there is no occasion or excuse for "unsettled conditions" on this score. Furthermore, the gold reserve is immense and unthreatened, the bank vaults are full of ready money; the crops, tremendous in volume, are commanding high prices; foreign governments are pouring in orders that aggregate hundreds of millions; the president promises that there shall be no further legislation touching business, big or small, and, last but not least, the railroads have been granted the advance in rates which they claimed would insure their prosperity.

One might go on reciting reasons why the United States, presently and prospectively, is on a much sounder footing financially, industrially and commercially than it has been at any time in, say, the last five, and perhaps in the last ten years. In common with the rest of the world it has just felt a mighty shock, but unlike some of its sister nations, it has recovered from it. Among all the nations of the earth today it seems to be in the best position to give an exhibition of confidence in the future. Its optimism would be cheering to the depressed everywhere. Its example of prosperity in peace would exert a widespread moral influence over popular thought abroad.

There is no good reason that we can see why the United States should not face the new year with all its promises of better things. The country is in the enjoyment of exceptional opportunities. By making proper use of them it can perform a good part for all the world. Let every one get to his post and do his part.—Christian Science Monitor, Boston.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

The Contractors' Material Co., of Des Moines, Iowa, has been incorporated with a capital stock of \$50,000. The officers are: president, Don B. Shaw; vice president, W. F. Thomas and secretary, R. L. Worcester.

The Builders' Lumber & Supply Co. of Wausau, Wis., has just been incorporated with a capital of \$25,000; W. H. Thom, W. P. McCullough and J. F. Ross were the incorporators.

P. A. Kypke for a number of years representing the Universal Company on the road in Minnesota and Wisconsin, has been appointed to manager Minnesota sales division. He succeeds S. A. Jamieson, who is no longer connected with the Universal Portland Cement Co.

The Standard Construction Co., of Davenport, Iowa, chartered, capital of \$10,000; F. J. Lewis, president, M. A. Lewis, vice president, D. Riley, secretary and treasurer.

H. E. Erickson, formerly associated with Nels Erickson, Boston block, is district manager for the American Cement Machine Co., with offices at 654 Plymouth building, Minneapolis. The company makes mixers and hoists.

The Milwaukee Concrete Mixer Co. has gotten out one of the handsomest and most useful booklets of the year, beautifully illustrated, on mixers and pavers. The catalog gives details which show clearly the merits of the mixers. Some of the immense structures, like the Elephant Butte dam, on which Milwaukee mixers have been used, are shown in the pictures.

Faribault Minn. contractors and lumber dealers report many inquiries indicating a good spring season of building.

The well known "Big-an-Little" mixer, made by the Jaeger Manufacturing Co., Columbus, Ohio, will be sold in the Twin Cities this year by H. B. Jones, 349 Security Bank building, Minneapolis. Mr. Jones is the contractors' equipment man and has also the agency for the Koehring line of mixers and the C. H. and E. Company's line of contractors' equipment.

Theodore Kerner of Milwaukee, inventor of a built-in system of garbage destruction of the incinerating type, has organized the Kerner Incinerator Co. with \$100,000 capital to manufacture the device on a large scale.

A "sewer pipe famine" developed in Minneapolis recently when a hardware company made desperate efforts to find some pieces of 24-inch tile in the city. Nobody had pipe of that size.

A new construction company, the German Evangelical Lutheran St. Paul's Gemeinde of Worden, has been incorporated at Worden, Mont., capital \$50,000; Fred Baltzer, Jacob Herman and Conrad Oblander. They will build a German Lutheran church in Worden.

The International Theatrical Association, a company which will operate theaters in several cities, has been organized at Glasgow, Mont., and expect to erect a modern theater building within the next six months. The incorporators are: D. Coburn, of Malta, Mont., M. M. Parks, of Redstone, Mont., and C. R. Byce of Spokane, Wash.

President A. G. Olson of the Olsen Concrete Mixer Co. has an inventor's workshop at his home in Elkhorn, Wis., in which many things, from a violin to a mixer, are seen. He regards his double drum as the only correct mixer method.

The Minneapolis Bank Fixture Co. has bought the stock machinery of the Northwestern Fixture & Cabinet Co., and installed them at 215 NE. 5th, Minneapolis, in the former Thos. Robertson quarters.

The first municipal levee terminal lease in the U. S. was signed Mar. 15, when the Builder Sand & Gravel Co. signed a lease for lots 23, 24 and 25 of the new reclaimed Davenport, Iowa, terminal at an annual rental of \$1,800. On the three lots the Davenport company will erect sand and gravel hoppers, a screening plant, offices and a big material supply station. Work on these buildings and yards will be commenced June 1, when all of the filling on the property will be completed.

H. M. Gardner of Gardner Hardware Co., Minneapolis, on the proposed Housing code: Speculative builders are not careful to anticipate the conditions that are likely to arise, and for this reason the city should regulate the conditions under which its people must live, not alone today, but tomorrow. The city must be safeguarded and the people protected from conditions arising from the deterioration of the

buildings built with no thought of the future. I believe the bill seeking to regulate the housing conditions in this state will give the safeguards necessary.

A. C. Ochs of Springfield, Minn., was one of the speakers at the annual meeting of the National Brick Manufacturers' Association, at Detroit. He urged better work by bricklayers' to help stimulate the demand for brick.

Stricter enforcement of the health regulations was urged in the annual report of President W. M. Arnold of the Montana Master Plumbers' at the annual meeting in Butte. He declared it the only method whereby incompetent workmen can be barred from the profession and nothing but the highest standard of work obtained. H. D. Stocking of Helena was named chairman of a committee on changes in the constitution.

The St. Paul Builders' Exchange was one of the city organizations which favored legislation to bond the city for \$1,000,000 for its share of new union station.

The Koehring Machine Co., of Milwaukee, Wis., manufacturer of concrete mixers, has opened a new office at St. Louis. C. T. Rabbeitt is district manager and headquarters will be at the Railway Exchange building.—Rock Products.

### ARCHITECTS AND ENGINEERS.

Architects Martin P. Schneider and Wilfred H. Stedman, desire to announce that they have opened offices for professional practice at Milwaukee, in the Majestic building, Room 711. They desire to receive catalogs and samples.

David Gorman, architect, has opened offices for the practice of his profession at 307 Sage st., Virginia, Minn. He desires to receive manufacturers' samples and catalogs.

American Institute of Electrical Engineers, Minnesota section, met in the Roof Garden, St. Paul hotel, Mar. 24; recent development in illumination was discussed; Emil Anderson, secretary.

European sketches were exhibited at the Gargoyle club this week, and an illustrated talk was given on linoleum.

The coming annual meeting of the Montana Society of Engineers, which is to be held in Butte, April 8 to 10, promises to be one of the most important engineering meetings ever held in the state. A committee consisting of Reno H. Sales, the president, Clinton H. Moore, the secretary, and Messrs. B. H. Dunshee, Sam Baker Jr. and H. C. Bacorn, has been named to arrange the program and all the details for the annual meeting.

The annual engineering alumni banquet will be held in the main engineering building, university of Minnesota Tuesday evening, April 13.

Engineering Bulletins dealing with "Concrete Road Construction" by Prof. C. F. Shoop, of the experimental engineering department and on "Secondary Stresses and other Problems in Rigid Frames, A new Method of Solution" by G. A. Maney of the department of civil engineering, will shortly be issued as research documents of the university of Minnesota.

Geo. E. Bertrand, of Bertrand & Chamberlin, architects, Minneapolis, favors building all houses costing over \$5,000 of brick or tile for looks and use. He says a street of brick houses has a satisfying look and a brick-built city appears more permanent than a city of wood houses.

"Vicious Circle," mentioned by E. H. Hewitt, of Hewitt & Brown, architects, Minneapolis, chairman of Housing committee of the Civic & Commerce Association: A vicious circle is discernible in the growth of cities. More factories, fewer houses, excessive congestion of population, inadequate building laws, more schools, more hospitals due to diseases rapidly spread through too much crowding, and still the cry for more factories continues.

A. E. Holcomb, Chicago, Ill., has accepted the position of chief engineer and designer for the C. W. Roof Manufacturing Co., Grand Rapids, Wis., manufacturing dredging, excavating and drainage machinery and equipment. Mr. Holcomb was for many years chief engineer and manager of the Chicago works of the Clyde Iron Works, Duluth, Minn.

"Air Conditioning" was the subject of a lecture before the Engineers' Society, March 25, at the state university engineering building. The lecture was given by J. I. Lyle, and was illustrated.

The Gargoyle club will give up its rooms and be a sketch club during the summer.



**"RUG" BRICK.**

Great interest has already been manifested by architects throughout the state in a new rough texture brick fittingly designated as "Rug" brick.

This unique and artistic product is distinctly different from any texture brick on the market. Laid in the wall Rug brick bears an unmistakable similarity to the soft and alluring tones of a Turkish or Persian rug. Made very rough with an individual knap or texture it absorbs rather than reflects light.—Los Angeles Builder & Contractor.

**MONTANA'S NEW BRIDGE LAW.**

It seems an unnecessary use of energy to work for a law requiring plans on file before the contract is let. But a Montana legislator had to apply himself vigorously to such a task before he succeeded. Once defeated he renewed the struggle and won. A statement from Helena says: One of the important bills passed on the eve of the closing of the fourteenth legislative assembly was that introduced by Hon. C. A. Rasmussen, as house bill No. 24, providing that plans and specifications shall be furnished for bridges before contracts for their construction can be awarded by county commissioners. The bill was eventually made a part of the general highway law, and was enacted as senate bill No. 11. Officials of the state highway commission has asserted this provision alone will save the taxpayers half a million dollars a year in that it will stimulate competitive bidding.

B. F. S. Benson and Henry E. Christensen have formed the firm of Benson & Christensen, general contractors, at Vesta, Minn.

**ARCHITECT SEES MUCH RED RIVER VALLEY BUILDING.**

That the present building year will be one of the best since the early settlers arrived in the valley is the belief of Archibald B. D. Keck, of Crookston, Minn., who recently made a trip to Middle River, Minn., to be present at the beginning of the concrete laying in the erection of the new consolidated school at Middle River.

The consolidated school will be of brick and one of the best buildings of its kind in the valley, fully modern, with the latest devices for first class teaching. Every facility to aid the teachers and pupils in their work will go with the Middle River school building.

Mr. Keck at the present time, is drawing plans for a new bank at Halstad to be constructed by the State Bank of Halstad. Bids will be called for within a short time for the erection of the 2-story modern building to cost approximately \$10,000.

Samuel Hunt a hardware dealer of Red Lake Falls, well known here, is having plans drawn by Architect Keck, for the erection of a modern dwelling in Red Lake Falls. These are in addition to many business, factory building, elevators and residences projected for this city, including the Crookston Cordage Co. plant, the big elevator for the Crookston Milling Co., the sanatorium for tubercular patients, one or more auto garages and a number of modern dwellings.

The eighth annual meeting of the American Society for Testing Materials will be held at Atlantic City, N. J., on June 22-26, with headquarters at the new Hotel Traymore. The society in a circular just addressed to its membership on the subject of adoption of standards, addresses to members the following inquiry:

Shall the present policy by which the adoption of standards is determined by letter ballot of the society at large be continued or abrogated? Considerable division of opinion has developed in the society, especially within recent years, as to whether it is desirable to continue or to abrogate the letter ballot of the membership at large as the final step in the procedure governing the adoption of standards.

The executive committee desires to make recommendations on this question in its next annual report to the society. As a preliminary step to the consideration of this subject by the executive committee, the secretary-treasurer has been instructed to ascertain the sentiment among the members of the society through a straw vote by letter ballot.

In this circular, the committee also calls attention to its recent decision to recommend a change in the by-laws by which proposed new standards shall in general be printed in the Year-book for one year

**SINKING OF 2,500-FOOT WELL.**

A Milwaukee consulting engineer is digging an artesian well at the plant of the National Enameling & Stamping Co. The well will do away with the necessity of buying city water, and the company officials figure that it will pay for itself in two years. The company employs 2,000 men, and its water bill is \$4,200 a year.

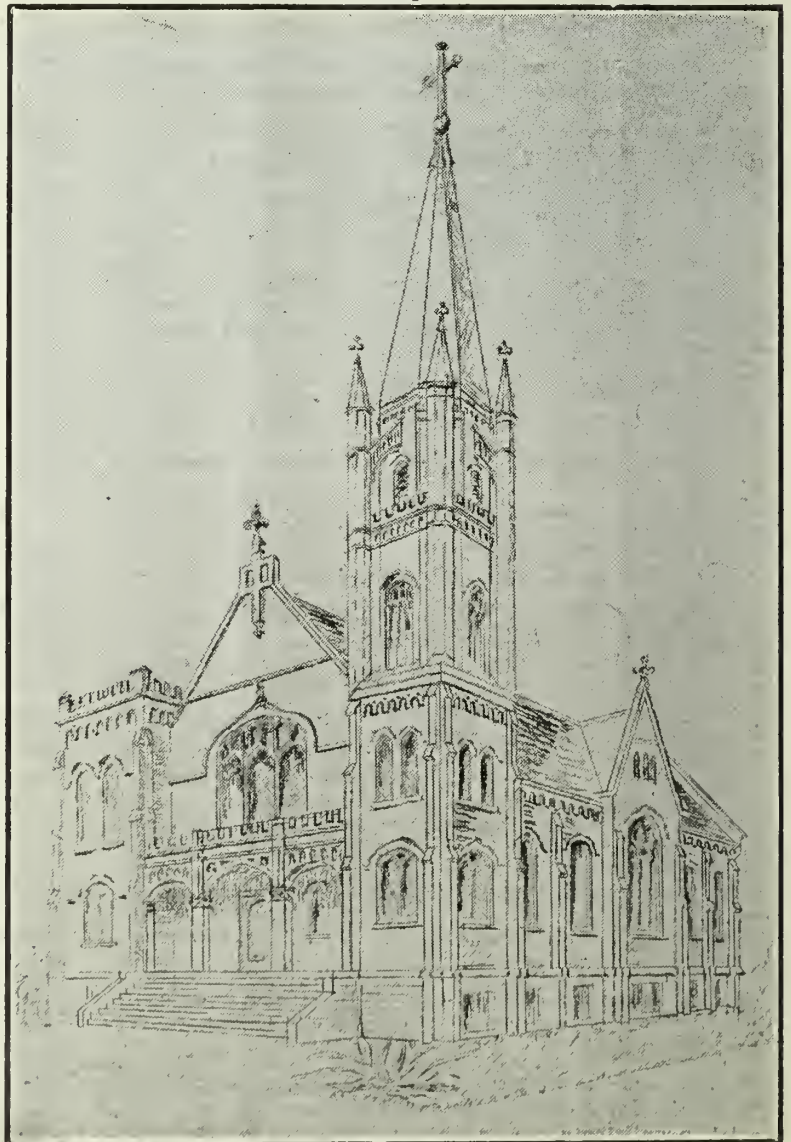
The well is now 1,900 feet deep, and the engineer figures that the total depth will be about 2,500 feet. The boring is 12 inches in diameter at the top and 6 inches at the bottom. Bed rock was struck at 174 feet.

The digging is done with a drill shaped like a chisel, which is at the end of a weight 30 feet long and 4½ inches in diameter. The weight is attached to a rope, which reaches to the ground above. An engine raises the drill and lets it drop forty times a minute, each stroke gouging out a section of rock. Each stroke is delivered at a place slightly different from the one that preceded it. The loose rock is brought to the surface.

The earth lying above the first stratum of rock is dug through in the same manner, and a pipe is run down to bed rock to prevent the earth around the opening from caving in. The boring is carried to a depth sufficient to insure a pressure that will send the water to any part of the plant.

**A PROSPERITY TIP.**

Word comes from the University of Minnesota that the mechanical engineers who are to graduate in June are beginning to receive calls from the commercial establishments seeking to secure their services. This may be looked upon as a possible sign that industrial conditions are improving.



Evangelical Lutheran Church at Young America, Minn.; brick, Bedford stone trim, 65x105; seats 600; Madsen Bros., Minneapolis, general contractors; A. F. Gauger, St. Paul, architect.



# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 714 Lumber Exchange.  
Phones: N. W. 3902. T-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

F. J. Keller, 4011 N. Colfax av., 1-story plaster veneer dwl.; Hill, builder; address owner, 4015 Colfax av.	1,500
J. F. Cotton, 3706 28th av., 1-story frame dwl.; address owner, 534 Security Bank bldg.	1,600
J. H. and C. E. Marr, 2120 Harriet av., 2-story frame addition to front of duplex; address owner, 2505 Aldrich av. S.	1,000
John G. Wallin, 3833 30th av. S., 1½-story addition to rear of dwl.; Carl Ruud, builder; address owner.	1,500
Peder Foss, 809 27th av. S., 2-story frame addition to rear and altering dwl. into flats and plaster veneer same; address owner.	1,000
Minneapolis Brewing Co., 319 Hennepin av., repairs and remodeling 4-story brick building into 1-story store; Wm. Siegman, builder; address owner, 13th av. N. E.	3,500
Dr. Thos. C. Cunningham, 200 E. Lake st., 1-story concrete block store; address owner, 200 E. Lake.	1,000
E. G. Walton, 316-28 4th av. S., repairs after fire; M. Schmaker, builder; address owner, 114 S. 4th.	8,000
Mrs. Thos. Lilly, 139-147 E. 17th st., 3-story brick apartments; contract not let; address owner, 831 7th av. S.	60,000
Luger Furniture Co., 173 Western av., 1-story frame storage shed; address owner, 2612 Humboldt av. S.	2,500
E. L. Lockwood, 501 5th st. SE., altering frame dwl. into duplex; address owner, 501 SE. 5th.	1,800
A. L. Frank, 3245 24th av. S., 1½-story frame dwl.; address owner, 3249 24th av. S.	1,350
Madsen Bros., owners and builders, 1515 Vine pl., 3-story brick apartments; address owners, 753 Plymouth bldg.	60,000
Madsen Bros., owners and builders, 1521 Vine pl., 3-story brick apartments; address owner, 753 Plymouth bldg.	55,000
F. E. Anderson, 2715 James av. N., 1½-story plaster veneer dwl.; address owner.	1,500
F. A. Hallet, 2231 W. 21st st., 2-story plaster addition to dwl.; Henry Parsons, builder; address owner, 2231 W. 21st.	3,000
C. E. Ashworth, 727-29 E. 14th st., 3-story brick apartments; address owner, 4248 Bryant av. S.	30,000
Minnesota Debuture Co., owners and builders, 4311 E. Lake st., 1½-story frame dwl.; address owner, 114 S. 4th.	1,100
Elizabeth Syme, 105-07-09 S. 13th st., repairs after fire; H. N. Leighton Co., builders; address owner, 111 S. 13th.	1,280
F. J. Duggan, 3414 N. Dupont, 2-story frame dwl.; address owner.	1,000
Mrs. Elizabeth Ludwig, 3953 Van Nest av., 1½-story frame dwl.; F. W. Thompson, builder; address owner, 3945 Van Nest av.	2,200
J. P. Sorenson, 1340 N. Vincent, 1½-story frame addition to dwl.; address owner, 1340 Vincent av.	1,000
M. J. Lamherton, 3621 37th av. S., 1½-story frame dwl.; address owner, 430 2d av. S.	1,600
F. J. Linn, 334 W. 50th st., 2-story plaster veneer dwl.; S. B. Appleton, builder; address owner, 724 9th av. SE.	3,200
Jessie Bradley, 2729 Harriet av., interior alterations to and concrete block foundation under frame dwl.; address owner.	1,500
P. H. Phillips, 4716 Aldrich S., 1½-story frame dwl.; address owner.	3,200
Geo. A. Schultz and I. O. Monson, 4101 Snelling av., 1½-story frame dwl.; address owner, 3415 E. 40th.	1,100
C. L. Newell, 3947 Stevens av., 1½-story plaster veneer dwl.; Nels Bruce, builder; address owner, 3943 Stevens av.	3,500
F. B. Knoblauch, 1112 Harmon pl., electric D. C. elevator; Gust Lagerquist, builder; address owner.	1,400
J. B. Cooper, 4009 Portland av., 1-story plaster veneer dwl.; J. J. Cooper, builder; address owner, 2641 Emerson av. N.	2,500
Mrs. Minnie C. Dunn, 3132 3d av. S., 1½-story plaster veneer dwl.; Cecil H. Morse, builder; address owner, 3128 3d av. S.	4,000
Jas. D. Shearer, 4715 3d av. S., 1-story frame dwl.; address owner, 1912 Queen av. S.	1,000
A. E. Jordan, 1217 8th st. S., 1-story frame 2d story addition, front porch and repairs to frame dwl.; address owner, 1217 S. 8th.	1,000
Irving M. Ruff, 2871-77 S. Humboldt, 3-story brick apartments; contract not let; address owner.	65,000
W. H. Evans, 4209 S. Colfax av., 2-story plaster veneer dwl.; address owner, Hotel Elgin.	3,800

James H. Brown, Lumber Exchange, was awarded contract for extensive remodeling of the residence of Chas. W. Sexton, 2321 Blaisdell; to cost \$25,000, heating, plumbing, wiring and all other work in the general contract except interior decoration; mantels, marble work, tile work, 5 baths, new roof, sun porches, billiard room, ball room; plans by Hewitt & Brown, architects, 716 4th av. S.

Glenn L. Saxton, architect, Plymouth building, has furnished plans for a plaster veneer and frame dwelling birch trim, 26x30, modern, \$3,200 for E. C. Nodin, Middle River,

Minn.; plans for frame bungalow, 25x26, modern, \$3,000 to Midland Lumber Co., Granby, Minn., plans for frame cottage, modern, oak and birch trim, \$3,800, to C. M. Youman's Lumber Co., Comfrey, Minn.; plans for bungalow, 26x26, frame, modern, \$4,200, for Henry A. Larson, Preston Minn.

\*Jackson & Stone, architects, Security Bank building, and Chas. M. Cruttenden Association, Northfield, are preparing plans for a large modern residence at Northfield, Minn., for F. W. Shandorf; 32x51, 2-story, brick, concrete, screened porches, hardwood floors and finish, mantel, sleeping porch, street car windows, glazed porch, trays, coal chute, walks and drives, gas and electric lights, cistern, garage.

Plans have been completed for residence and garage for C. M. Fitch, 26x35; large sun porch, living room with fireplace and bookcases, dining room built-in sideboard, beamed ceiling and wainscoting, vestibule and front porch, tile floor; bath room, tile floor and wainscot, large sleeping porch; hot water heat, brick plaster and half timber construction; cost approximately \$10,000; owner taking figures; D. C. Bennett, architect.

\*A. R. Van Dyck, architect, is preparing plans for a frame residence at Mandan, N. D., for Otto Bauer, 26x34, 2-story, concrete, hot water heat, shingle roof; owner lets work; also plans for a frame residence at Sentinel Butte, N. D., for Lewis F. Crawford, 36x42, frame, 2-story, modern; water system, shingle roof, screened porches. Owner lets work.

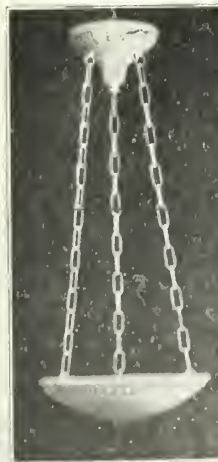
Excavation completed for apartment building, 55 apartments, 3-story and basement, \$100,000, 1786 Hennepin av., for Friedman Bros., 424 Hennepin av., plans by S. J. Bowler, 631 Boston block, taking bids; day labor; brick and Bedford stone, tar and gravel roof, metal skylight, stone cornice, structural iron.

Contractors bidding on general contract of the Weisman building, 10th and Nicollet, include James Leck, Haglin-Stahr Co., Elson-Williams Co., Leighton & Co., Anton P. Hill, C. A. Davis, Fleischer-Rose Construction Co.; figures in March 30; office building, to be remodeled at 1st av. N. and 7th st., 4th S.

Plans completed by D. C. Bennett, architect, 3323 N. Humboldt av., for residence for Wilford Kearton, St. Paul; brick and plaster construction; 1½-story, 30x32; two fireplaces, cornice and beam ceilings, built-in sideboard; tile floor in bath room; hot water heat; cost \$5,200; start construction soon.

C. H. Anderson, contractor, 517 S. 9th st., will build a modern dwelling for P. Drewelow; 2-story, 25x33, frame, concrete foundation, cedar shingles, plate and d. s. glass, stucco exterior, hot water heat, birch floors, dumb waiter, metal lath, gas fixtures, electric light, storm sash, screens; plans by A. N. Olson.

\*Reid corner, 9th and Nicollet, will be increased to eight stories; cost about \$125,000. H. C. Earle, president Nicollet Association, Inc., owners. Offices for doctors and dentists. Plans by Bertrand & Chamberlain, architects, Northwestern building. Chas. L. Pillsbury, consulting engineer.



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# PROPOSAL ADVERTISING FOR BIDS

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ors—complete outfits furnished.

## Proposal Index

Bids Close		See Imp. Bulletin Dated
Mar. 29.	Church, Redwood Falls, Minn.	Mar. 13
Mar. 30.	Ind. School, Pierre, S. D.	Mar. 6
April 5.	City Hall, Ames, Iowa	Mar. 13
April 5.	School, Kenyon, Minn.	Mar. 20
April 6.	Bank, Kenrick, Minn.	Mar. 27
April 7.	Bridges, Sibley, Iowa	Mar. 13
April 7.	Bridges, New Hampton, Iowa	Mar. 6
April 12.	School, Kenyon, Minn.	Mar. 20
April 13.	Sewer Work, St. Cloud, Minn.	Mar. 27
April 13.	School, Willow City, N. D.	Mar. 13
April 15.	School, Lamberton, Minn.	Mar. 20
April 15.	Church, Strum, Wis.	Mar. 27
April 15.	Culverts, Windom, Minn.	Mar. 27
April 16.	Road Work, Walker, Minn.	Mar. 27
April 21.	Electric Light System, Larchwood, Iowa	Mar. 27

### ARMORY BUILDING.

Madison, Minnesota.

Notice is hereby given that bids will be received by the Board of Armory Supervisors of the State of Minnesota, at the office of Capt. A. M. Larson, Madison, Minnesota, for the building and construction complete in accordance with plans and specifications of an Armory building located in the city of Madison, Minn.

Copies of the plans and specifications can be found at the office of the St. Paul and Minneapolis Builders' Exchange and at the office of Captain A. M. Larson, Madison, Minnesota. All bids must be received at the above mentioned place on or before two o'clock P. M. April 10th, 1915, and will be opened at said office at five o'clock, P. M., of said day.

Contractors bidding will deposit \$5.00 for the use of plans and specifications, same to be refunded when plans are returned.

The right is reserved to reject any and all bids. The successful bidder must be prepared to immediately deposit with the said Board a certified check in the sum of ten per cent of the bid as evidence of good faith, to be forfeited if he shall fail or refuse to enter into contract to do said work as such contract shall be prepared by the Architect.

Contractors are required to submit with their proposition the amount they will deduct providing the following items of work are omitted from the plans and specifications:

1. Omitting excavation of basement and coal bin
2. Omitting all plaster on drill hall walls.

(Continued on page 14.)

## PROFESSIONAL DIRECTORY

### ENGINEERS

### OSCAR CLAUSSEN ENGINEERING COMPANY

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702-12 Metropolitan Life Bldg.  
MINNEAPOLIS

NORTHWESTERN MANAGERS

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H. Edw. Walker, architect, 202 Lumber Exchange, has submitted sketches for approval for a modern high school building at Boyd, Minn., brick, 2-story and basement, fan ventilation, steam heat, slate blackboards, composition roof, \$18,000; address architect.

H. Edw. Walker, architect, 202 Lumber Exchange, is preparing plans for a modern residence at Cedar Lake, for F. M. Henry, concrete block walls, plastered and stuccoed, 32x30, 2-story, hot water heat, fireplace, tile bath; owner builds; day labor; address architect.

Richard Billingsley, general contractor, Kasota block, has started work on the large modern residence of E. C. Bisbee, at 2774 West Lake of the Isles blvd.; brick veneer, 2-story, 51x38; all modern; plans by W. Channing Whitney, architect, Loan & Trust building.

Plans, completed and work begun on residence for Geo. Nichols, 4707 Dupont S.; 27x28; 2-story, plaster veneer; sun-porch, fireplace and bookcases, tile floor in bath, built-in sideboard, hot water heat; cost \$4,500; D. C. Bennett, architect.

A residence being built for Prof. Cheyney, No. St. Anthony Park, 26x32, 2-story, plaster veneer and half timber, sun-porch with fireplace; living room with fireplace, built-in sideboard, billiard room in basement; sleeping porch, hot water heat; cost \$5,000; D. C. Bennett, architect.

Herbert O'Hara, is building at Dupont and 26th st. S., residence, 26x28, 2-story, plaster veneer, sun-parlor, fireplace, bookcases, cornice and beam ceiling, built-in sideboard, sleeping porch, tile floor in bath, vacuum cleaner, cedar closet; cost \$4,800; D. C. Bennett, architect.

All floors in the First ational Bank building, will be finished by S. M. Klarquist & Son, Security Bank building, as they are rented by the agents, Conklin, Zonne, Harrison Co., the same firm will complete the erection of the partitions pending leases; E. T. Fallows, architect, New York Life building.

Work will start April 1, on residence for Miss Hamlin, Garfield and 37th; 26x28, 2-story, plaster veneer; built-in bookcases, sideboard, cornice in living room, linen closet, clothes chute, laundry in basement, electric lights, hot water heat; cost \$4,200; D. C. Bennett, architect, 3322 N. Humboldt.

The Beck Electric Construction Co. has just taken out permit for the electric work, including telephone, mail boxes, etc., for 1906 3d av. S., for the 19-apartment building of Anderson-Nelson Construction Co.

Cream of Wheat Co. is arranging for a branch plant in Winnipeg, Man., for Western Canada; will be in factory building constructed for the company by Winnipeg parties; details not settled.

Plans are being completed for the Walker-Burton store and office building, will be remodeled at 1st av. N. and 7th st., 5 or 6-story addition, 65x112, \$80,000; Engineer C. A. P. Turner, same building.

S. M. Klarquist & Son were awarded the general contract to erect the 3-story bottle factory building, for the Minnesota Fibre Bottle Co., 22d and California sts. NE.; C. A. Boehme, architect, Kasota building; cost \$25,000.

Figures on the modern laundry building, 12th and Marquette, for the Nevins Co., are being received until Saturday March 27; Bertrand & Chamberlin, architects, N. W. Bank building.

\*Tyrie & Chapman, architects, and Carl Gage, associate architect, have furnished plans for a modern residence; hollow tile, stucco, fireplace, for E. J. Moles, of Janney-Semple-Hill Co.

The Beck Electrical Construction Co. are equipping the 4-family flat for Ole Johnson on Bedford av., with complete installation for electric lights, bells, speaking tubes and mail boxes.

Maurice Schumacher has the contract for rebuilding after fire, the burned portion of the old Colony building, 4th st. and 4th av. S., for J. G. Walton, \$8,000.

Old Soo Line building, 2d av. between 3d and 4th, for sale and may be remodeled for hotel; C. E. Wales, 601 N. W. Bank building, said to be interested.

\*Figures will be in Monday on the C. H. Van Campen residence, Girard and Franklin; frame, stucco, modern. Plans by Ernest Kennedy, Essex building.

Contract was awarded by the county board to P. McCoy & Co., 640 Johnson st. NE., for macadamizing Cedar av. road, from limits south 4½ miles.

\*Stebbins & Haxby, architects, Auditorium building, have completed the plans for the Johnson school addition.

\*Irving M. Rieff will build a 3-story brick flat, twenty-seven apartments, 2871 Humboldt S.; cost \$65,000.

Scandinavian American Bank, may build; Geo. F. Orde, vice president.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

## Building Permits.

Aurora Sash & Door Co., 2-story brick and concrete block addition to factory, Aurora near Oxford; John Engabo, builder	1,200
W. S. Stahl and H. H. Comstock, 1811 Goodrich, builder, 2-story frame dwl., Goodrich near Finn.	3,000
Sperry Realty Co., 3-story electric elevator, 11th near Jackson; Lee & Hoff Mfg. Co., builders	5,695
Klinkerfues Bros., 3-story electric elevator, E. 7th near Mendota; Lee & Hoff Mfg. Co., builders	1,050
Arthur Godbout, 1193 Selby, builder, 1½-story frame dwl., Berkeley near Snelling	3,200
Albert E. Petronek, 1-story frame dwl., Michigan near Erie; F. M. Mersch, builder	1,600
Jos. A. Arpagaus, 940 E. 3d, builder, 1½-story frame and stucco dwl., 954 E. 3d	2,000
Jos. A. Arpagaus, 1½-story frame and stucco dwl., 950 E. 3d	2,000
M. Johnson, 2133 Selby, builder, 2-story frame and stucco dwl., Selby near Cretin	4,000
A. M. Grolla, 624 S. Smith, 1½-story frame dwl., Morton near Ottawa; Rook Bros., builders	2,000
Mr. Otto, 1-story frame dwl., Wheeler near St. Anthony; Lindstrom & Anderson, builders	2,500
Philip Justus, 815 New York Life, builder, 2-story frame dwl., Laurel near Herschel	4,000
Ramsey County and City of St. Paul, alterations to 4-story brick and steel city hall, Wabasha near 4th; Wm. Baumeister, builder	16,800
C. A. Krenzel, 894 Thomas, builder, 1-story frame dwl., Thomas near Dale	2,000
James Murphy, 1160 Ross, 1-story frame dwl., 5th near Cypress; Wm. Lindeau, builder	2,000
Thomas Murphy, 1160 Ross, 1-story frame dwl., 5th near Cypress; Wm. Lindeau, builder	2,000
Leo Beetsch, 448 Charles, builder, 2-story frame dwl., Charles near Arundel	1,100

Contractors are studying the plans for the proposed new union depot with a view to submitting bids for the work, changing of the channel of the Mississippi river, probably will be covered by one general contract. Requests for bids for this work will be sent out about April 1, if by that time the war department has given its consent to the river changes. Drawings showing the proposed change and samples of the earth which will have to be dredged away are being shown the contractors in the office of the Union Depot Co. in the Hackney building.

Hennessey & Co., contractors, Oppenheim building, have let subcontract on St. Anthony of Padua church school, N. E. Minneapolis; common brick, Chaska, face brick, Belt Line, steel, Crown Iron Works, mill work, Simonson, hardware, Raymer, marble, slate and tile, Drake-Marble & Tile Co., painting, J. S. Smith, plastering, And. Smith; lumber, Central Warehouse Co., reinforcing steel, Corr, Bar Co.; architect, E. J. Donohue.

Hartford & Hausler, architects, Pioneer building, will have plans out March 29, for a large modern residence, Portland between Snelling and Fry, for Robt. Wunderlich; brick, stucco, hot water heat, sun-porch, tiling, all casement windows, leaded glass, asphalt slate shingles, walks and drives, billiard room, two brick and stone mantels, buffet, trays, vacuum cleaner piping, garage with separate heating plant; architect will let all work.

Hartford & Hausler, architects, Pioneer building, have plans underway for a mechanic art school at Stillwater, Minn., manual training, domestic science, forges; gas ranges, building to be built of stone, composition roof, steam heat, slate blackboards, hardwood floors, finished basement and subbasement; spring and summer work; bids will be advertised for.

Contracts awarded by Peter J. Lindhoff, architect, Germania Life building, on residence for J. M. Gruber Goodrich av.: Olson & Erickson, general, Oakland Heating Co., heating; B. E. Cardinal, plumbing; N. W. Electric Co., wiring; total \$15,550.

Silas Jacobson, architect, Capital Bank building, has furnished plans for a Norwegian Evangelical Lutheran at Strum, Wis., and bids are being taken until 2 p. m., April 15; plans on file at Minneapolis and St. Paul Builders' Exchanges, at architect's office and in Strum; official call for bids in the Improvement Bulletin this week.

Peter J. Lindhoff, architect, Germania Life, is preparing plans for a large modern residence on Summit av.; brick, fireproof, slate roof, 5 bath rooms, all tile, 2½-story, concrete foundation, hot water heat, sun-room, mantels, probably day work; plans out first of next week.

A. L. Garlough, architect, Rosen building, has furnished plans for a garage at Mendota, Minn., commercial for E. Bernier, 30x60, 1-story, brick, plate glass front, galvanized iron pitch roof, concrete floors.

General contract for Mrs. W. H. Marshall, flats, Cleveland (Continued on page 17.)



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT  
ASSETS \$3,514,125.50

Both Phones 622

The Hood & Matschke Co.  
GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.  
ASSETS \$4,982,371.79  
MINNEAPOLIS, MINNESOTA

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#### Dickinson Brick

ALL KINDS

Call for Samples and Prices

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Dickinson, N. D.

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Manufacturer of

#### CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
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#### DRAUGHTSMEN'S BLOUSES

\$1.50 (FRENCH SMOCKS) \$1.50  
Sent prepaid on receipt of  
State Height and Weight  
E. Falkeuhainer, 25 W. 42d St., New York

3. Omitting all basement floors.
4. Omitting Puliman ventilator intakes.
5. Omitting balcony.
6. Omitting two lights in gallery and receptacles in officer's room.

The accepted bidder will be required to furnish a bond for the full amount of his contract.

Board of Armory Supervisors of Minnesota.

By COLONEL JOHN BUSCHERS.  
Dated New Ulm, Minnesota.  
March 20th, 1915.

#### SCHOOL BUILDING.

Willow City, N. D.

The undersigned hereby gives notice that sealed proposals for the erection of a one room and half basement school building, including all labor and material, will be received by Winifred Erdman, clerk of Willow Creek School District No. 6, until the hour of 2:00 P. M. on the 13th day of April, 1915.

All bids must be in strict accordance with the plans and specifications prepared by Ed. White of Mohall, N. D., which may be seen at his office, at the office of Winifred Erdman, clerk, Willow City, N. D., or the "Towner News-Tribune" office Towner, N. D., or the Builders' and Traders' Exchange, Minneapolis.

A certified check for 5 per cent of the

bid payable to the order of Chas. F. Getzlaff, chairman Willow City, N. D., must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in double the amount of the contract price for the faithful performance of the contract. The right is reserved to reject any and all bids.

WINIFRED ERDMAN, Clerk.

Place of letting, seven miles west of Willow City, at the home of Adolph Erdman.

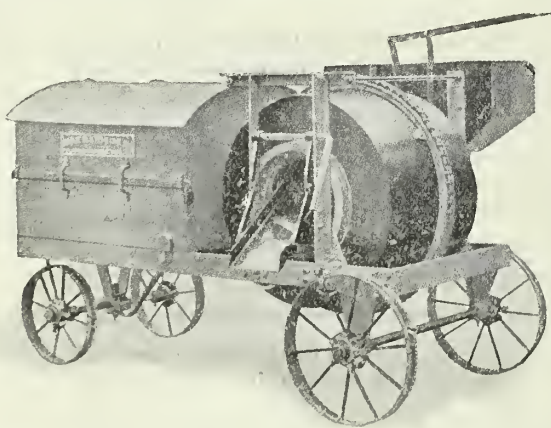
Date, April 13, 1915.

(Continued on page 16.)

### EDINGER

"JUST NOW"  
Let  
"EDINGER"  
Cedar Rapids, Iowa  
figure on that job of  
**CUT STONE**  
Plans sent for Estimate  
Returned promptly.

### EDINGER



## "STEHLING" — The Quality Mixer

Used successfully on large and small jobs

Its quality and quantity of mix puts it to the front of all mixers on both large and small jobs. The drum of the Stehling Mixer has a capacity of 5½ cubic feet dry material; daily output 60 cubic yards. Its 5½ cubic foot hopper is loaded while the drum mixes the previous batch, thereby assuring a continuous feed and discharge. No time is lost. Mixers carried in stock for prompt shipments.

Write for further information and prices

Chas. H. Stehling Co., 401 4th Street Milwaukee, Wis.

Agents Wanted -- Good live Workers in unoccupied territory. Proposition sent on request.



## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

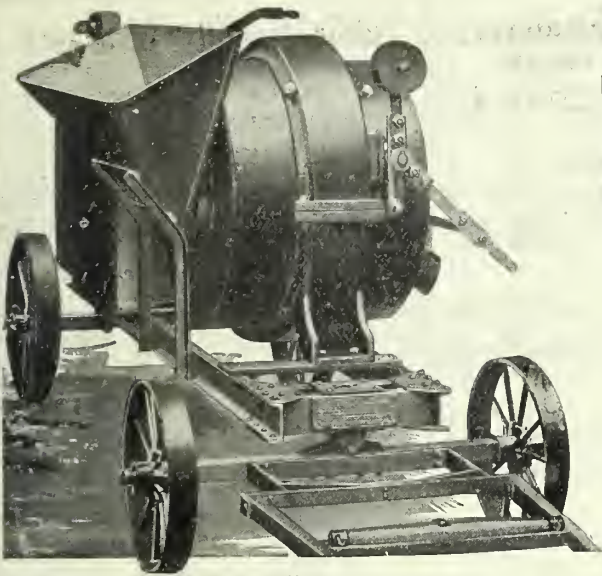
such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

**ST. PAUL ROOFING, CORNICE  
and Ornament Co.**  
ST. PAUL, MINN.

Send us your Plans. Our figures cost nothing, and You Will Save Money.





# Smith Mixerette

## Facts and Figures

The Bleicher Concrete Co., Kenosha, Wis., purchased the first Smith Mixerette that was built. Here's what they have to say about their machine and some of their records as given in their letter of October 26th, 1914.

"We bought one of your Smith Mixerettes six months ago, and find it to be a great labor saving machine. With 3 men we are able to put in 1,000 square feet of sidewalk in 9 hours with the aid of your mixer. Recently I put in a foundation 35 ft. x 42½ ft. x 1 ft. (55 cu. yds.) with your Mixerette in 9½ hours."

"It is a wonderful machine and I can recommend it to any one desiring to reduce their labor expenses, for I know how much can be accomplished with it."

This dandy little mixer holds a five-foot batch of dry, loose material, 3 cubic feet of mixed concrete. It will easily turn out 5 cubic yards per hour.

Compared with other five foot mixers, the price of the Smith Mixerette is as low or lower, and back of it is the guarantee of the biggest concrete mixer manufacturers in the country.

\$128.00 on skids with pulley and feed chute.

\$246.00 on steel truck with 2 H. P. gasoline engine, steel house and low charging, gated batch hopper.

\$315.00 on steel truck with 2 H. P. gasoline engine, steel house and ground level power charger.

Get all the data by filling in and mailing the Coupon for Mixerette Proposal and Booklet No. 106-B.

### MAILING COUPON

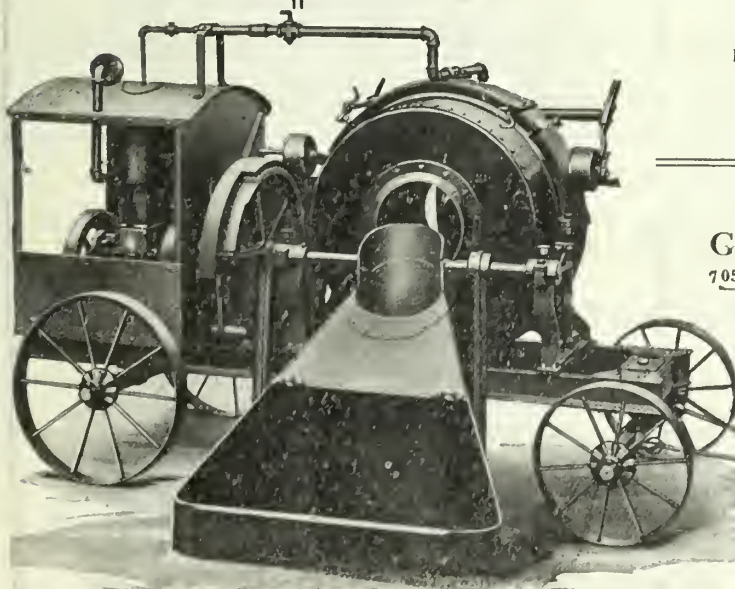
Send me, without any obligation on my part, SMITH MIXERETTE proposal and Booklet No. 106-B.

Name.....

St. Address or P. O. Box.....

City.....State.....

Note---Fill in this coupon and mail it to any address given in this advertisement.



G. E. Ingersoll Co. | Raymer Hdwe. Co.  
705-B Pioneer Press Building | 52-B East 5th St.  
ST. PAUL, MINN. | I L

MANUFACTURED BY  
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**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

## JOBS

### ROLLER WANTED.

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTV-E, Sioux City, Iowa.

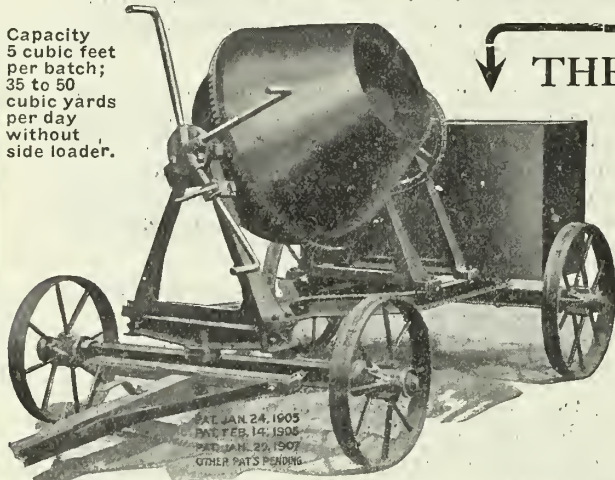
Wanted:—Carpenter foreman or superintendent with experience in church construction; address R. J. Stark, 1103 1st Ave. W., Cedar Rapids, Iowa.

### POSITION WANTED.

Wanted: A position as superintendent or carpenter foreman on structural steel or reinforced concrete building. Can handle any part of the work or all if so desired. Have had nine years' experience and can furnish the best of references; care Box No. 2, Improvement Bulletin.

(Continued on page 18.)

Capacity  
5 cubic feet  
per batch;  
35 to 50  
cubic yards  
per day  
without  
side loader.



## THE Little Wonder "Five"

"The Mixer that Makes the Money"

Deserves your first consideration because it has proved its superiority with more of your brother contractors' right in your own state, than any other. Ask us who and we'll put you in touch with them—then ask them why and they'll tell you it beats any mixer they ever used or heard about for quick, easy work and large dividends on investment.

Ten Days Free Trial and Satisfaction  
or We Pay the Freight

Waterloo Cement Machinery Corporation

220 Vinton Street, Waterloo, Iowa.

Hale Concrete Machinery Company

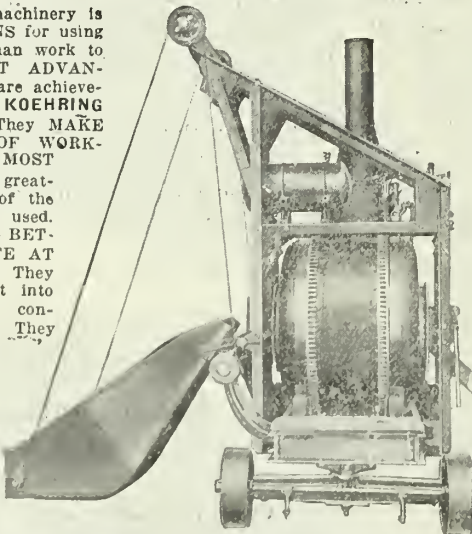
N. W. Agents, 1043 McKnight Building, Minneapolis, Minn.

## Measure Value by Result

Any kind of machinery is simply a MEANS for using power and human work to the GREATEST ADVANTAGE. These are achievements of the KOEHRING MIXERS. They MAKE THE WORK OF WORKMEN COUNT MOST—they get the greatest value out of the time and power used. They PRODUCE BETTER CONCRETE AT LESS COST. They put more profit into every yard of concrete mixed. They take the guess-work away from contracts. They make each dollar invested in them COST LESS TO MAINTAIN, and therefore make each dollar EARN THE HIGHEST RATE OF INTEREST.

To do a thing well is desirable; to do it better is more desirable—and to do it BEST is MOST DESIRABLE. MIXING THE BEST, and STANDING UP UNDER THE WORK are two specialties of the Koehring.

And just because it is the Mixer that has KEPT PACE WITH THE GREATEST MECHANICAL PROGRESS, the Koehring is the kind that is sought and bought. It does its talking when it is in USE—and what is a safer standard for judging anything than USE?



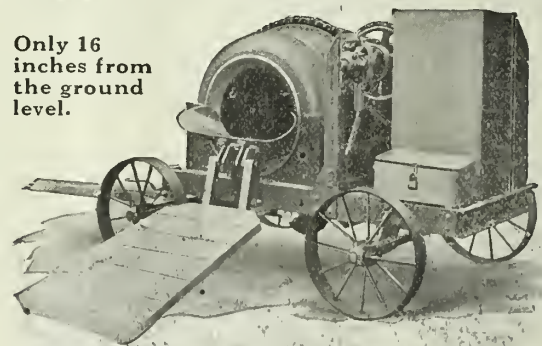
## Koehring Machine Co.

Milwaukee, Wisconsin

H. B. JONES, District Manager  
350 Security Bank Building :: :: Minneapolis, Minn.

## The "Wisconsin"

Only 16  
inches from  
the ground  
level.



## Low Charging Mixer

Has highest efficiency. Is lowest in price. Most compact and handy. Made for long service. Built on honor to the last bolt. Write for booklet, showing our complete line of mixers.

## Milwaukee Concrete Mixer Co.

MILWAUKEE, WIS.

FRANK J. ROSE, Agent

208 Corn Exchange Bldg., Minneapolis, Minn.





Let's  
Get  
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Facts!

You are going to buy a Concrete Mixer.

### WHY?

To save time and money—to do better work and more of it.

### THEN

Buy a Jaeger Big-an-Little Mixer and obtain the greatest value in a Concrete Mixer that it is possible to obtain.

You know mixing stability rests on quality—no better materials can be procured—no better design of outfit can be made—no better results can be obtained than with a "Big-an-Little."

Leadership our principle. Satisfied customers our motto.

Once a "Big-an-Little" user always one.

Get full particulars now.

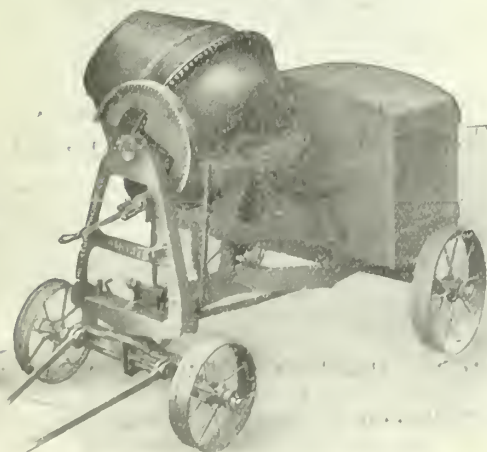
**THE JAEGER MACHINE CO.**  
West Rich St. Columbus, Ohio

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H. B. JONES 349-51 Security Bank  
N. W. Phone Main 789 Minneapolis, Minn.

**SPEAKES LIME & CEMENT CO.**

Superior, Wis.



### ST. PAUL.—(Continued.)

and Buford, was awarded to W. A. Best, R. F. D., St. Anthony Park, by the architects, Hartford & Hausler, Pioneer building; plumbing and heating not let.

Glenn L. Saxton, architect, Minneapolis, has furnished plans for a modern residence for A. D. Korfhage, 292 E. Robert, frame, siding and shingles, oak and birch trim, 26x30; hot water heat, mantels; \$4,800.

A system of fire extinguishers has been recommended for installation at the state capitol; G. H. Nettleton, inspector of state buildings.

City plans a new police station in the Hamline district, to be ready soon; Henry McColl, commissioner of public safety; City Hall.

Central Automobile Co. has plans for a brick and concrete garage at Victoria and Grand; cost about \$15,000; applied for permit.

A. F. Gauger, architect, Scandinavian American Bank building, awarded contract for the vault, Red Wing court house, to H. G. Nelson & Son., Hastings, Minn.

Work will start April 1 on the two hotels for M. P. Ryan, at 499-505 St. Peter and 510-512 St. Peter; Schuett & Forshee, general contractors, Mark Fitzpatrick, architect, 19 W 9th.

First Baptist church, 9th and Wacouta, plans a 3-story addition, action to be taken April 7; Rev. H. G. Beeman, pastor, 594 Marshall av.

A. O. H. bought site near Capital on Iglehart av. for \$40,000 lodge hall.

Crane & Ordway received contract for the city public comfort station fixtures.

Mayor C. W. Clark of South St. Paul, has named a committee to work for a public library.

Permit issued for brick warehouse for Berg & Son, Bradford and Long st.; \$14,000.

Plans for the Carnegie branch libraries, are to be sent east for approval in a few days.

### OMAHA, NEB.

A 2-story and basement building with white enameled exterior, is planned by Brandess & Sons, for 17th and Dodge, if the First Presbyterian church adopts report of trustees to sell.

Plans for new modern fireproof, board of trade building, will be completed in 60 days; E. M. Morsman Jr., representative, owners; cost \$500,000.

J. H. Weise So. Omaha, got the contract for the extension of the Lincoln postoffice at \$213,720.

Four stories of the Rose Realty building, 16th and Farnham will be built at first, by the Armstrong-Walsh Realty Co.; \$150,000; F. A. Henninger, architect.

New grain exchange will cost \$450,000; Jas. Black & Co., contractors; St. Louis.

Ladies' Golf club will build a clubhouse near Miller Park; Mrs. W. H. Flynn.

### FIRE APPARATUS

Iowa, Clinton—Six bids were received on the combination chemical and hose auto truck for fire department; F. W. Leedman, clerk.

\*Minn., Blue Earth—Fire department may purchase a new fire wagon, similar to the Waseca wagon; L. L. Willmert, chief.

\*Minn., Chisholm—Assistant Fire Chief Geo. Nitch was appointed as chief of the fire department.

Minn., Goodridge—Goodridge Firemen are raising funds to purchase a chemical engine.

\*Minn., Minneapolis—The Council Fire Department committee has directed the purchase of two sets of rubber tires for trucks Nos. 1 and 2, of the fire department; all steel tires will be gradually replaced by rubber ones.

Minn., New London—The fire department will purchase new supplies for department, vote carried.

\*Minn., Tower—Contract awarded to W. S. Nott & Co., Minneapolis, for following fire supplies; 500 feet 2½-inch fire hose, at \$1.10. Chas. Lang, city recorder.

Mont., Ballantine—Election will be held April 28 to vote on incorporation of Hysham.

\*Wis., Mondovi—P. E. Shaw was elected as chief of the fire department; H. F. Hurlley, assistant chief.

\*Wis., Racine—City will have a motorized fire department; address Chief Cape.



## KEEP TALKING LINO FELT -- "Between you and the weather"

If the cold of winter prevents you working on the outside, there is still time to save your customer money on his fuel bill by putting LINO FELT between or over the studding. This is inside information. Talk to him about putting LINO FELT in the walls and roof of his home not only because he can save fuel in winter, but because LINO FELT keeps the heat out in the summer, and the sound waves stop when they meet LINO FELT, insuring comfort the year around.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

## STRUCTURAL STEEL and ORNAMENTAL IRON BUILDING MATERIAL "Every-Thing-You-Need" MARBLE AND TILE

**HAAKINSON & BEATY CO., SIOUX CITY, IOWA**

ESTIMATES GLADLY FURNISHED

PROMPT SHIPMENTS

### NOTICE TO CONTRACTORS.

School, Lamberton, Minn.

Sealed proposals will be received by the Board of Education, District No. 31, Redwood county, Lamberton, Minnesota, on or before 8 p. m., April 5, 1915, at the Auditorium of the Old High School Building. All bids to be addressed to the Clerk. Bids for the erection and completion of a new school building, also installation of the heating, plumbing, ventilation, for the new school building, according to plans and specifications by Kirby T. Snyder, Architect, 643 Plymouth Building, Minneapolis, Minnesota. Plans may be viewed at the office of the Clerk and at the office of the Architect. Contractors wishing plans for their exclusive use may obtain same from the Architect by paying the cost of duplication.

A deposit of \$25.00 on all plans taken

out of the office, same to be returned when the plans are returned to the Architect.

A certified check of 3 per cent of the bid to accompany each proposal. The Board reserves the right to reject any or all bids.

(Signed.) ALBERT H. ENERSEN,  
Clerk, District No. 31, Redwood Co.  
Lamberton, Minnesota.

### CHURCH.

St. Paul, Minnesota.

The undersigned hereby gives notice that sealed proposals for the erection of a frame church, to be erected on Lafond St. between Syndicate and Hamline Aves., St. Paul, Minn., including all labor and material, will be received by Rev. M. Casey, at 1259 Thomas St., St. Paul,

Minn., until the hour of 2 P. M., on the 31st day of March, 1915.

All bids must be in strict accordance with the plans and specifications, prepared by W. F. Keefe, Architect, of 204-5 American Bank Bldg., which may be seen at the residence of Rev. M. Casey, 1259 Thomas St., on and after March 16, 1915.

A certified check for 2 per cent of bid, payable to the order of Rev. M. Casey, must accompany each bid as a guaranty, the same to be returned to unsuccessful bidders immediately on letting the contract. The party to whom the contract is awarded will be required to give a satisfactory bond in the full amount of contract, for the faithful performance of the contract. The right is reserved to reject any or all bids.

(Signed.) W. F. KEEFE.

(Continued on page 19.)

## WINNER MIXERS



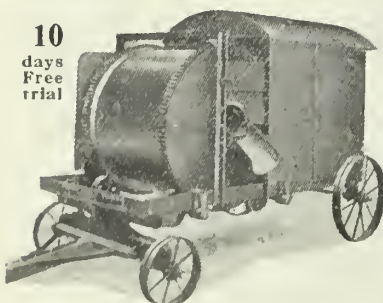
FACTORY: WATERLOO, IA.

Are The Kind  
That Stand the  
Service Test

Ask us why

CHARLES HOUSTON  
District Manager

THE  
Cement Tile Machinery Co.  
554-58 PLYMOUTH BLDG.  
Minneapolis, Minn.  
Phones: Nicollet 52. Annex 52



10  
days  
Free  
trial

Try Out This  
"New Way"  
Mixer on  
Your own job

You'll find that it will stand the hardest kind of work for the longest time at the least expense.

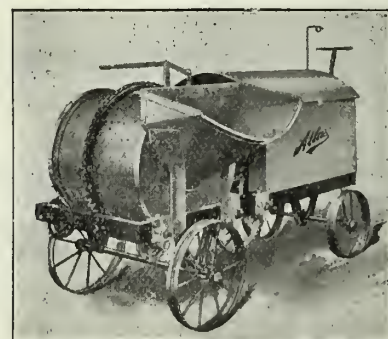
You'll find that it will do the work in about half the usual time.

It is built for speed, durability and economy.

Note this again. Our machines are sold on ten days' free trial, and our guarantee protects you absolutely. It is worth investigating. Get catalog E.

**E. WEGE CONCRETE MACHINERY CO.** 118 S. 2nd St. La Crosse, Wis.

## The Atlas Mixer



Furnished  
with  
Batch  
Hopper  
or  
Power  
loader

5  
and  
11 foot  
Capacity

It's the Grind of Every  
Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

**Atlas Engineering Company**

MILWAUKEE, WIS.

1137-1138 Plymouth Bldg., Minneapolis, Minn.

Telephones: Nicollet 5293. Center 2432.



**PROPOSALS FOR SEWER CONSTRUCTION.**

**St. Cloud, Minnesota.**

Notice is hereby given that sealed proposals will be received by the City Clerk of the City of St. Cloud, Minn., up to Tuesday April the 13th, A. D., 1915, for the construction of sewers in Sewer District No. 6, in accordance with the plans and specifications on file in the office of the City Clerk.

The proposal call is for 10,063 feet of from 8-inch to 15-inch pipe sewers, 28 manholes and 4 flushtanks—the material to be excavated is sand.

Plans, specifications and proposal blanks, can be secured from the City Clerk by making a deposit of \$3.00 to insure their return.

Each bid must be accompanied by a certified check for \$1,000.

The City reserves the right to reject any and all bids.

Witness my hand and seal of the City of St. Cloud, Minnesota, this 19th day of March, A. D., 1915.

(Seal.) **GEO. G. MAGNUSON,**  
City Clerk.

**BIDS WANTED FOR SCHOOL.**

**Kenyon, Minn.**

Contractors are hereby notified that plans for the New High and Grade School to be erected at Kenyon, Minnesota, by the Independent School District No. 91, of Kenyon, can be secured at the office of Alban & Lockhart, Architects, 347 Endicott Building, St. Paul, Minnesota, by enclosing with request for plans a certified check for \$10.00 to insure prompt return of drawings. Checks will be held by architects until contractors return plans.

Bids are desired on the following items:

General Construction.

Heating and Plumbing.

Electrical Work and Fixtures.

Manual Training, Domestic Science and Gymnasium Equipment.

Bids must be delivered at the office of Dr. J. A. Gates, President of the Board, at or before 6:30 P. M., April 12, 1915, and must be plainly marked on outside of envelope, "Bids for the General Construction," or whatever it may be. Bids to be accompanied by certified checks as follows:

General Construction, 3 per cent of bid 1.

Heating and Plumbing, 5 per cent of bid 1.

Electrical Work, 10 per cent of bid 1.  
Bid on Equipment, 15 per cent of bid.

Certified checks will be returned at once to unsuccessful bidders and to the successful contractor upon execution of contract with bond.

It is desired that a representative of the Contractor be present at the opening of the bids.

Signed.

**INDEPENDENT SCHOOL DISTRICT  
NO. 91.**

**Kenyon, Minn.**

**J. A. GATES, President.**

**OPPORTUNITY.**

Awaits the man who **Thinks and Works.** A solidly expanding Lumber Company requires the services of several young men who are willing to work, willing to learn, and who are not afraid to assume responsibilities.

Preference will be given to those hav-

ing a high school education or its equivalent, knowledge of drafting, reading blue prints of houses, planning barns and other farm buildings, and some experience in carpentry and residences of farming sections.

Advancement lies ahead of those who show capacity, and increasing efficiency.

**INTERIOR LUMBER COMPANY,**  
**Minneapolis, Minn.**

**CHURCH.**

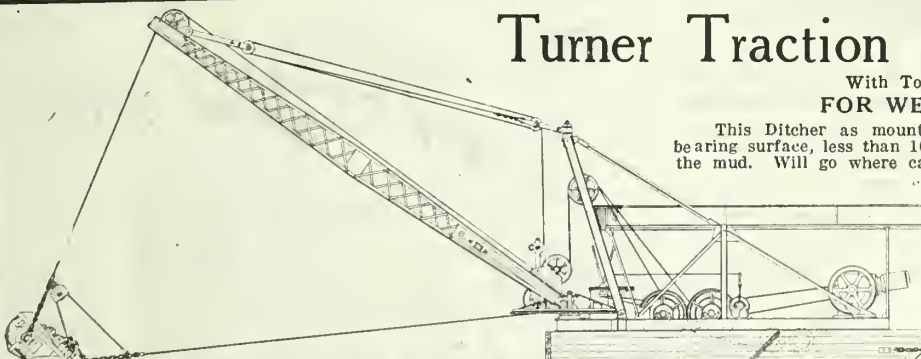
**Strum, Wis.**

Sealed proposals will be received by Mr. Nils Robbe, Secretary of the Building Committee of the Norwegian Evangelical Lutheran Church at Strum, Wisconsin, until 2 P. M. April 15, 1915, for the erection and completion of a church building at Strum, in accordance with the plans and specifications prepared by S. Jacobson, Architect, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the architect. Bids to be accompanied by a certified check of two (2) per cent of the amount of the bid, which check will be returned when building contract is executed. Plans and specifications will be on file at the Builders' Exchanges, St. Paul, Minn., and Minneapolis, Minn., at the office of the architect, at the office of the Secretary of the Building Committee at Strum, Wis., and one other city designated later.

Copies of plans and specifications can be obtained by paying for the cost of duplication of same, and depositing a certified check of \$10.00 to insure the return of plans and specifications.

The Building Committee reserves the right to reject any or all bids.

(Continued on page 21.)



## Turner Traction Dragline Ditcher

With Towing Rig and Drag Scow  
**FOR WET OR SWAMP WORK**

This Ditcher as mounted for swamp work has 700 square feet of bearing surface, less than 100 pounds to the foot, and no running parts in the mud. Will go where caterpillar and track machines fail. Forty-foot boom, 1½-yard bucket, 65-H. P. double-cylinder oil engine, Kerosene or distillate fuel. Powerful in hard digging and stumps. Towing rig a powerful stump puller. Does not straddle the ditch and crush banks. No track building. Only two men required. Lowest ultimate cost per yard. If doing either wet or dry work you should use this machine.

**UNITED IRON WORKS COMPANY**
**SPRINGFIELD, MO.**

# THE HARDING MORTAR MIXER

## will save \$10 to \$25 per day in Labor and Material on every job and more than pay for itself on every big job.

EXTRACTS FROM RECENT LETTERS

We are using The Harding Mortar Mixer in mixing the plaster on the Blackhawk Hotel, and we are saving with its use the wages of three laborers, \$6.75 per day. We could save more labor, but we are only mixing for twelve plasterers at this time; one man is doing all the mixing.

**ULLRICH & FOSTER,**  
Davenport, Iowa.

I feel that I am doing a fellow contractor a favor if this letter will influence him to try one of your machines, for patent plaster. Besides hair mortar and wood fiber, I have mixed cement mortar and top coat just as successfully.

**GUARANTEE CONSTRUCTION COMPANY,**  
Per Eggelstine,  
Cedar Rapids, Iowa.

WRITE FOR SPECIAL PRICE ON FIRST MACHINE IN EACH TOWN.

## MORTAR MIXER CORPORATION, Iowa City, Iowa



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn. Duluth Office  
Wolvin Bldg.

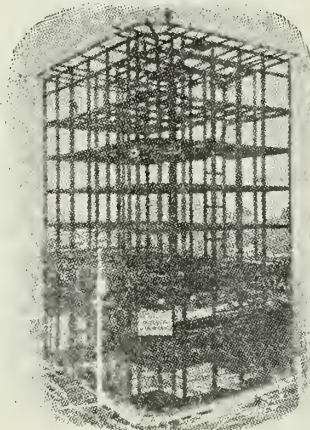
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In Gauges No. 7 to 12 Inclusive.  
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Agents for Minnesota and North and South Dakota  
Lumber Exchange Building, Minneapolis, Minn.



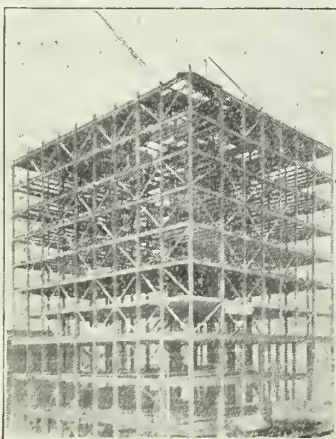
## Structural Steel

of every description, for all purposes. Structural Shapes and Reinforcing Rods kept in stock.

ESTIMATES GLADLY  
FURNISHED

### Clinton Bridge Works

CLINTON - IOWA



Water Works  
Plants, Water  
Towers, Stand  
Pipes, Structural  
Steel, Bridges,  
Fire Escapes,  
Road Drags, etc

### Des Moines Bridge & Iron Works

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DES MOINES, IOWA

## ST. PAUL FOUNDRY COMPANY

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### STEEL STRUCTURES

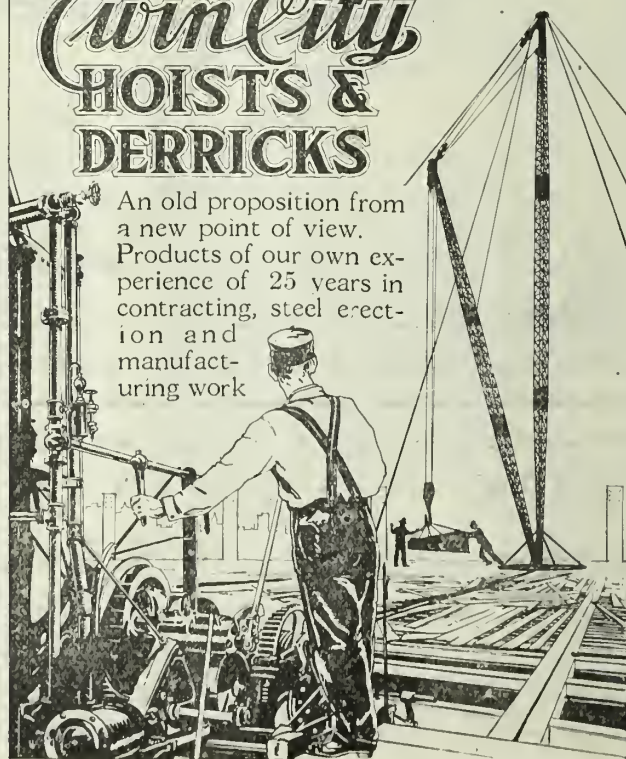
BRIDGES, COLUMNS, TRUSSES,  
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OFFICES AND WORKS  
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## Twin City HOISTS & DERRICKS

An old proposition from a new point of view. Products of our own experience of 25 years in contracting, steel erection and manufacturing work



Steam, Electric and Gasoline. Our catalog may be worth money to you

Minneapolis Steel & Machinery Co.  
285 3 Minnehaha Ave. Minneapolis, Minn



**CORRUGATED IRON CULVERT.**

Windom, Minn.

Bids will be received up to 1 o'clock, P. M., April 15, 1915, by the County Auditor of Cottonwood County, Minn., on Corrugated Iron Culvert, sizes ranging from 12 to 36 inches in diameter and to meet requirements of the State Highway Commission as to test, etc. Bids are especially wanted on Portsmouth and Vismara iron.

A certified check for at least \$50.00 should be enclosed with bid. Board reserves right to reject any or all bids.

S. A. BROWN,  
County Auditor,  
Cottonwood County, Minn.

**STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC.**

Of The Improvement Bulletin, published weekly at Minneapolis, Minn., required by the act of August 24, 1912.

Editor—O. L. Colburn, 716 Lumber Exchange.

Managing Editor—O. L. Colburn, 716 Lumber Exchange.

Business Manager—W. F. Chapman, 716 Lumber Exchange.

Publisher—Chapin Publishing Co.

Owners: (If corporation, give names and addresses of stockholders holding 1 per cent or more of total amount of stock.)

Name of	Postoffice Address
Mrs. V. E. Chapin,	4224 Queen av. S., Minneapolis, Minn.
Mr. R. C. Chapin,	4224 Queen av. S.,

Minneapolis, Minn.

Henry Deutsch, 617 Plymouth building, Minneapolis, Minn.

Known bondholders, mortgagees and other security holders, holding 1 per cent or more of the total amount of bonds, mortgages, or other securities:

None.

Average number of copies of each issue of this publication sold or distributed, through the mails or otherwise, to paid subscribers during the six months preceding the date of this statement. (This information is required from daily newspapers only.)

Sworn to and subscribed before me this 15th day of March, 1915.  
(Seal.)

W. F. CHAPMAN,  
Notary Public, Hennepin County, Minn.  
(My commission expires October 14, 1918.)

**NOTICE OF ADVERTISEMENT FOR BIDS FOR LABOR AND MATERIALS REQUIRED IN THE CONSTRUCTION OF AN ELECTRIC LIGHTING SYSTEM FOR THE TOWN OF LARCHWOOD, IOWA.**

Notice is hereby given that until 1 p. M. o'clock on the 21st day of April, 1915, bids for labor and materials required in the construction of an electric lighting system for the town of Larchwood, Iowa, will be received according to the plans and specifications which are on file in the office of Mr. W. F. Ashton, Town Clerk, Larchwood, Iowa, and also in the office of Earle D. Jackson, Consulting En-

gineer, St. Paul, Minnesota, and may be there examined and seen.

The work is divided into three parts: Part I. consisting of a cement block building; Part II. consisting of furnishing and erecting an oil engine, generator, storage battery, switchboard, and Part III., electrical distribution system. Bids will be received on complete parts only.

Bids must be made out on the bidding plans furnished by the consulting engineer for this purpose and must be accompanied by a certified check for 5 per cent of the contract price, as a guarantee that the bidder will enter into a contract and perform the work in case the contract is awarded to him. In addition the successful contractor must give a bond for the carrying out of the work on award of contract, for the full amount thereof, to run for one year from date of acceptance of work.

The sum of \$2.00 (to cover cost of printing and mailing) must accompany applications for copies of plans and specifications and the latter must be returned with bid; and otherwise the bid will not be considered.

Address bids to Mr. W. F. Ashton, Town Clerk, Larchwood, Iowa.

The right is reserved to reject any or all bids.

TOWN OF LARCHWOOD, IOWA.

MR. W. F. ASHTON,  
Town Clerk,  
Larchwood, Iowa.

(Continued on page 23.)

# Pick Your Mixer from This List

## of Badger Concrete Mixers

We have All Sizes. Every One Good.

The Badger No. 4, a five cubic foot mixer on skids.

The Badger No. 5, a five cubic foot mixer on trucks with batch hopper.

The Badger No. 7, a seven cubic foot mixer on trucks, with power loader.

The Badger No. 9, a ten cubic foot mixer, with charging spout or power loader.

The Badger No. 10, a ten cubic foot mixer, end charging and end discharge, batch hopper and power over drum.

The BADGER ROAD BUILDER No. 11, an eleven cubic foot mixer, end power loader and end discharge, power over drum.

The BADGER ROAD BUILDER No. 15, a fifteen cubic foot mixer, end power loader and end discharge, power over drum, or steam power.

The BADGER ROAD BUILDER No. 20, a twenty cubic foot mixer, end discharge, end power loader driven by steam power, and large mixer for large contractors.

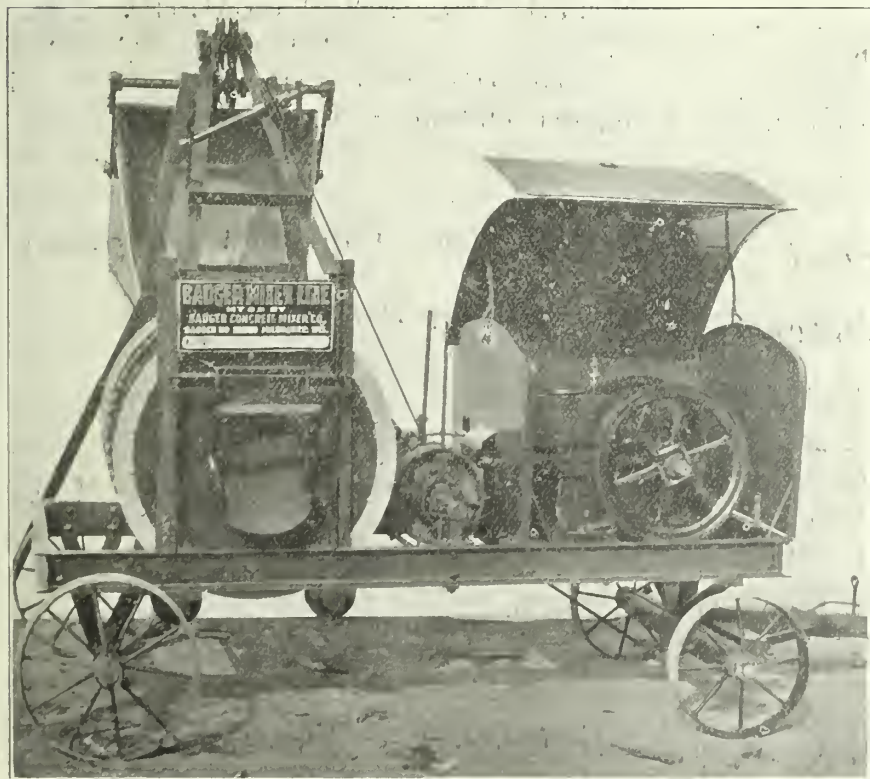
**THIS PICTURE SHOWS BADGER NO. 7**

It is a 7 cubic foot loose material capacity mixer designed for bridges, culverts, sidewalks, curbs and gutters, small foundations. It's a handy all around size mixer, well built and very strong.

Just Write a Postal for Big Catalog to

**PAUL J. KALMAN CO.**

N. W. Agents



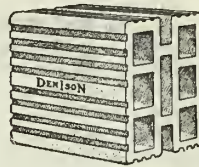
**BADGER CONCRETE MIXER CO.** Office and Factory at **Milwaukee, Wis. Pioneer Bldg., ST. PAUL, MINN.**



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AMERICAN FIREPROOFING  
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DRAIN TILE

Manufacturers of Common and Hollow Brick, Hollow Building Blocks,  
Fireproofing and Partition Tile, Vitrified Drain Tile from 4 to 24 inches.  
WE ALSO MANUFACTURE THE INFINITEX SILO BLOCK



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U. S. and Foreign Patents Pending.

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Guaranteed crushing strength, 600 pounds to the square inch.

Superior for stucco exteriors or bonds perfectly with brick.

Non-continuous mortar joints.

Vertical webs directly over each other.

Saving in cost erected of 25% over brick construction.

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Makers of All Kinds of Silo Tile, Drain Tile, and Hollow Building Blocks.

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Manufacturers of the  
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Daily Capacity - 250 M

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Show a beautiful variety of shades and colors suitable to large and small buildings.

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Pure, brilliant in tone, economical in use, absolutely reliable and a permanent guarantee against fading and washing. Why not insist on having them?

Red, Brown, Buff, Purple and Black

RICKETSON MINERAL PAINT WORKS, Milwaukee, Wis.



## NOTICE TO GRADING CONTRACTORS.

Walker, Minn.

Office of the County Auditor, Cass County, Minnesota.

Notice is hereby given that sealed proposals will be received at the office of the County Auditor of Cass County in the village of Walker, Minnesota, until 2:00 P. M., Friday, April 16, 1915, for the construction of State Rural Highways No. 81 and No. 83, located in said Cass County, Minnesota, at which time and place or such time or times as the auditor may then adjourn to, the contracts for the construction of said highways will be let to the lowest responsible bidder.

The construction of said rural highway No. 81 involves:

81.55 acres of clearing.  
55.45 acres of grubbing.  
30,975 cubic yards of surfacing.  
48,381 cubic yards of grading.  
129,000 linear feet of turnpiking.  
31,263 cubic yards of off-take ditches.  
56,324 cubic yards of side ditches.  
4,076 linear feet of corrugated metal culverts.

410 cubic yards of concrete culverts.  
Total estimated cost of work \$69,947.43.  
The construction of said rural highway No. 83 involves:

94.57 acres of clearing.  
56.70 acres of grubbing.  
10,746 cubic yards of surfacing.  
113,550 cubic yards of grading.  
47,850 linear feet of turnpiking.  
18,934 cubic yards of off-take ditches.  
20,100 cubic yards of side ditches.  
4,849 linear feet of corrugated metal culverts.

464 cubic yards of concrete culverts.  
2 (24-foot span) concrete and steel bridges.

Total estimated cost of work \$61,131.09.

Plans and specifications for the above work may be seen at the office of the County Auditor of said Cass county and at the office of George A. Ralph, Engineer in charge.

State Rural Highway No. 81 extends from the Village of Backus in said county in a westerly and southerly direction to the village of Motley a distance of 43 miles.

State Rural Highway No. 83 extends from the Village of Remer in said county southerly and easterly to the southeast corner of the county, a distance of 30 miles.

Bids must be made on blank forms which will be furnished by the engineer. Bids may be made on the whole or on one or more sections or other divisions thereof. No bid will be entertained which exceeds the engineer's estimate by more than 30 per cent. The right is reserved to reject any or all bids.

Each bid must be accompanied by a certified check for 10 per cent of the amount bid, made payable to the county auditor of said Cass County.

C. D. BACON, County Auditor.  
GEORGE A. RALPH,  
Engineer in charge,  
410 Hubert Bldg., St. Paul, Minn.  
Dated at Walker, Minn. March 23, 1915

## STEEL CAGE FOR SALE.

Carlton, Minn.

Carlton County, Minnesota, offers for sale a three cell steel cage with prisoners' corridors, lever locking device, all in first class condition. Just the thing for a village lockup or a small county. For particulars communicate with,

AUG. R. NORMAN,  
County Auditor, Carlton, Minn.  
Dated, March 12, 1915.

## BANK

Kerrick, Minnesota.

Sealed bids for the erection and completion of a BANK BUILDING at Kerrick, Minn., will be received until 1:30 P. M., of April 6, 1915, by the KERRICK STATE BANK. Plans and specifications are on file at the Builders' Exchange, Duluth, Minn., or may be secured upon application to the architect, R. J. Willcuts, of Foxboro, Wis.

All bids to be accompanied by a certified check for 5 per cent of amount of bid. Bonds will be required of successful bidder for 15 per cent above amount of the bid.

The KERRICK STATE BANK reserves the right to reject any and all bids.

## FOR SALE AT A BARGAIN.

One 300-H. P. Twin City Cross Compound Corliss Girder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

John Menge, Jr., architect, is taking bids until March 29, for the erection of a \$5,000 frame and stucco residence for F. Heuer on Cedarburg plank road, Milwaukee county; also for a bungalow for Ph. Gross, Jr., at 9th and Chambers st., to cost \$4,500. The same architect awarded following contracts on \$5,000 bungalow for C. P. Lauson at Hales Corners Milwaukee county: mason, South Side Construction Co.; carpenter, Henry C. Puls.

Henry C. Hengels, architect, 702 Grand av., will take bids after March 27, for the erection of a \$7,500 residence for Rudolph C. Haase, at 868 Hackett av. The same architect is preparing plans for a residence for Will Hardy at College and Grand avs., Waukesha, Wis.; also for remodeling the residence of Arthur L. Gasper, at 218 Broadway, Waukesha, Wis.

Carl Barkhausen, architect, 121 Wisconsin st., awarded the following contracts on factory for Fred Oesterreich at 11th av. and Mineral st.: carpenter, Wm. Johnson; cut stone, P. Schmidt & Co.; sheet metal, P. J. Lavis; iron, C. Hennecke; roofing, Winding & Gezelchap.

Leiser & Holst, Germania building, architects, awarded following contracts on store and flat building costing \$15,000 for H. A. Winter, on Center st., near Holton st.: carpenter, W. Wiedenhoef; mason, E. Kastenholz; iron, Skobis Co.; plumbing, Loeppnow Bros.

The Milwaukee board of public works closes bids April 2, for constructing house drains and water service connections on 49th and 52d sts.; 20th, Cleveland and Greenfield avs.; aggregates of bonds required, \$1,730; F. G. Simmons, commissioner.

Robt. A. Messmer & Bro., architects, Majestic building, awarded the mason contract to Riesen & Riesen and the carpenter contract to Charles Bartz on \$10,000 brick veneer residence for Wm. A. Gettelman on Hi-Mount boul., near Vine st.

Henry Miltacher, contractor, will build on his own account a \$4,000 frame duplex at 1590 27th st.

## PUBLIC BUILDINGS

Iowa, Atlantic—Proposition for \$20,000 city hall will be submitted to voters March 29; address city clerk.

Iowa, Bedford—Vote of citizens in favor of Carnegie library building; preliminary plans under way, and probably erect early in summer; address city clerk.

Iowa, Des Moines—Site being negotiated for to build police and fire station costing about \$200,000; 66x100, 3-story, fire-proof; address city clerk.

Iowa, Shenandoah—Architect's plans for proposed armory building for Company E, Iowa guards, have been approved and bids will probably be taken soon.

Iowa, Storm Lake—Plans for the \$125,000 Lyon county court house will be drawn by Smith & Kiefer, Des Moines, Iowa.

Minn., La Crescent—Village has voted \$800 for new town hall; Frank Harris, village recorder.

Minn., New Ulm—Plans are being discussed for a municipal steam heating plant; H. C. Kimbrough, representing the American District Heating Co. of New York, looking over the situation; estimated one mile of mains will cost \$30,000; proposed to heat four business blocks with exhaust steam from a central plant.

Mont., Bozeman—Details of plans for proposed auditorium are being worked out by the Fred F. Wilson Co., architects; 80x140, cement block, seating capacity of 1,200, modern heating and lighting systems; cost about \$9,000; address city clerk.

Mont., Cascade—Election April 5 to vote on bonds for proposed town fire hall and council room to cost \$3,500; Wm. Pepworth, town clerk.

Mont., Hamilton—Revised plans for proposed library building have been accepted by the Carnegie foundation; address secretary of the library association.

Mont., Helena—Bill for establishment of twine factory at Deer lodge penitentiary, now before the governor, provides for expenditure of \$265,000; address superintendent penitentiary, Deer Lodge.



—The NAME—

# "TWIN CITY BRICK"

STANDS FOR THE BEST THAT'S MADE IN FACE BRICK

Famous for their High Quality and Beautiful Colors

Cost No More than the Ordinary Kind

Insist on having "Twin City Brick" specified and used for facing your new building. Furnished in any Color smooth or rough faced. Dry Pressed or Wire Cut Stiff Mud.

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TWIN CITY BRICK COMPANY.

Capital Bank Bldg.  
St. Paul, Minn.

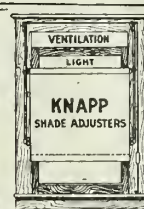
## THE HENNEPIN BRIDGE CO.

*Steel and Concrete Bridges*

Corrugated Culverts-Heavy Sheet Metal Work

LAUREL AND COLFAX AVES.

MINNEAPOLIS, MINN.



## FOR SCHOOLS

*and Office Buildings*

Knapp Shade Adjusters

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Complete Banking Room Fixtures

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IMPORTED MARBLE DOMESTIC

TERRAZZO and MOSAICS

Slate and Slate Blackboards

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For Floors, Walls, Ceilings, Etc.  
Slate Blackboards, Steps, Plat-  
forms, Marble Interior Finish,

ESTIMATES

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TODAYTWIN CITY TILE & MARBLE CO.  
312-14 7TH ST. S. MINNEAPOLIS, MINN.

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THE JOHN LESLIE PAPER COMPANY

NORTHWESTERN WHOLESALE DISTRIBUTORS

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MINNEAPOLIS, MINN.

Brick, Marble, Tile, Etc., for the Contractor.



**Mont., Miles City**—Among bidders for proposed U. S. post-office here were: Gray Construction Co., Watertown, S. D.; Wm. O'Neil & Son Co., Faribault, Minn.; John Lauritzen, Fergus Falls, Minn.; Frank L. Johnson Co., Duluth; Olson & Johnson Co., Missoula, Mont.; J. H. Weise, Omaha, Neb.; Bailey, Marsh & Co., Minneapolis, Minn.; J. W. Miller, St. Paul, Minn.

**Mont., White Sulphur Springs**—Plans completed the last of the month for the new county jail; modern, fireproof, concrete throughout; address county clerk.

**Mont., Terry**—County commissioners of new county of Prairie have purchased a brick building and will have it remodeled for a county court house; 20x90, to be partitioned off into offices and jail, and heat put in; contract has been let for brick vault to cost \$1,000.

**Mont., Twin Bridges**—Legislature has provided funds for a cottage for the state orphans' home, costing \$25,000; Waller Shobe, president.

**Neb., Aurora**—Vote will be taken on bonds for city hall some time next month, costing \$15,000; address city clerk.

**Neb., Gordon**—Plans completed for new city hall; either brick or cement, with white pressed brick front, 25x60, 2-story. \$5,000; address city clerk.

**Neb., Lincoln**—Floor plans received for dairy building at the state farm call for a fireproof building throughout, either tile or terrazzo floors, walls of white tiling, outside of gray brick, with Bedford stone trimmings, steel roof, covered with slate, doors wholly or in part of slate; to be T-shape, main part, 64x140, another part, 60x68; C. E. Showins, superintendent buildings and grounds, state university.

**Neb., Lindsay**—City hall is to be built here; address city clerk.

**Neb., Wilber**—A tax is being levied to build a new court house here; address county clerk.

**S. D., Pierre**—State legislature recently adjourned made appropriations for public construction to be made during 1915-16: Plankinton, equipment of gymnasium at training school \$3,000, and addition to training school, \$9,700; Madison, new building at normal school, \$5,000; Aberdeen, addition to main building at normal school \$65,000; Redfield, water supply (tower) at school and home for the feeble-minded, \$5,000; Hot Springs, smoke stack at soldiers' home, \$1,634; Vermillion, additional boilers and equipment at state university, \$10,000; also addition to chemistry building, \$10,000; Pierre, improvement of state capitol grounds (driveways, walks, trees, etc.), \$20,000; grand total, \$179,334.

**S. D., Rapid City**—City commissioners have authorized a local architect to prepare plans for a new city building for the fire department; 2-story; address city clerk.

**Wash., Elma**—Council is considering site for proposed Carnegie library; address city clerk.

**Wash., Olympia**—State senate has passed following appropriation for building: Northern hospital for insane, two ward buildings, \$128,000; auditorium, \$30,000; institute for feeble-minded, buildings, central heating plant, etc., \$296,000; state school for blind administration building, \$75,000; state school for girls building, \$60,000; Bellingham Norman school, repairs, improvements, etc., \$50,000; Cheney Normal school, new building, \$50,000.

**Wis., Chippewa Falls**—County board will order construction of cold storage building at the county asylum; address county clerk.

**Wis., Eau Claire**—Election April 6, to vote on \$50,000 bonds for city hall; address city clerk.

**Wis., La Crosse**—A library and branch high-school combined is proposed for N. La Crosse; address secretary, Progressive League.

**Wis., Monroe**—An addition to the city hall will probably be built this spring; costing \$5,000; F. M. West, mayor.

**Wis., Superior**—Plans for proposed barn at the Douglas county asylum farm at Parkland have been reopened by J. M. Waltz, county agricultural agent; cost to be about \$4,000.

#### BIDS WANTED.

\***Minn., Madison**—Bids received till 2 p. m., April 10, for armory building; all particulars in official call for bids in the Improvement Bulletin this week.

**Mont., Hamilton**—All bids rejected for extension to poultry building at fair grounds; will be readvertised and bids opened April 10.

**Mont., Malta**—Bids received by W. G. Schneider, clerk of county board, until 2 p. m., March 29, for the manufacture and erection in the jail room of one steel cage, 12x20 feet, containing four cells, each to be 5x7x7, opening into a front exercise hall, 5x20; check for 5 per cent.

**N. D., Bismarck**—Bids received by T. E. Flaherty, county

auditor, until 10 a. m., April 7, for steel ceiling in office of county judge, also for plastering and painting; check for 5 per cent.

**N. D., Center**—Bids received by Frank J. V. Kiebert, county auditor, until 4 p. m., April 5, for hard maple floors in all offices and hall of the main floor of the court house; check for \$50.

**Okla., Ardmore**—Bids received by O. Wenderoth, supervising architect, Washington, D. C., until 3 p. m., April 28, for the construction complete (including mechanical equipment, lighting fixtures and approaches) of a 3-story and basement, stone and brick-faced building of 6,600 square feet ground area, fireproof construction, composition roof, for the U. S. post office and court house at Ardmore, Okla.

#### CONTRACTS AWARDED.

**Colo., Greeley**—Contract to Soorie & Varnum, Denver, for court house.

**Iowa, Garner**—Contract to B. L. Stratton, Mason City, for library building at \$6,500; 30x44, 1-story and basement.

**Minn., Red Wing**—Contract to Hans P. Nelson & Son, city, for addition to the vaults at the court house, at \$1,265; O. Bayer, St. Paul, bid \$1,375, and W. J. Longcor, city, \$1,300.

**Mont., Forsyth**—Contract to J. H. Green, Roundup, for city jail building at \$4,760; 36x46, brick and concrete.

**Neb., Broken Bow**—Contract to Clyde Elder, Anselmo, Neb., for Carnegie library building at \$7,700; brick, stone trim, tile roof. C. W. Way Co., architects, Hastings, Neb.

**Neb., Collegeview**—Contract to E. A. Jenkins for public library building at \$8,000; W. E. A. Aul, president board.

**Wis., Ashland**—Contracts for interior work at the court house have been let as follows: the Furnace, Office & Bank Furniture Co. of Indianapolis, Ind., furniture, \$11,235; the Morreau Electric Co., Cleveland, Ohio, electric fixtures, \$3,297; the Johnson Service Heat regulation system, which is similar to the one used at the high school, \$1,225; the National Weatherstrip Co., Milwaukee, weatherstrips, \$496.

**Wis., Menomonie**—Contract to Wm. Metcalf, city, for heating outfit and plumbing in court house addition at \$1,925.

**Wis., Shawano**—Contract to Fred Werbelow, city, for library building; plans by Claude & Starck, 8 S. Carroll st., Madison.

## HOTELS AND HOSPITALS

**Iowa, Red Oak**—Plans in progress for addition to Hotel Johnson, owned by Samuel Paine, city; 68x35, 3-story, \$15,000; L. D. Willis, architect, City National Bank building, Omaha.

**Minn., Aitkin**—Fire partly destroyed the Foley hotel.

**Minn., Le Sueur Center**—Le Sueur county has voted against joining with six other counties in a proposition to build a sanitarium at or near Mankato.

**Minn., Rochester**—C. D. Brown will have plans made for an addition to his hotel.

**Minn., Rochester**—Plans in progress for hotel for Joseph Crabb; 44x48, 3-story and basement, \$20,000; Hoffman & Mosse, architects, city.

**Minn., Sauk Rapids**—Plans maturing for hotel; Sauk Rapids Granite Co. has offered to take part or all of stock; address Jos. Coates, president, Commercial club.

**Mont., Billings**—The Cottage Inn will be moved and remodeled and renovated and repainted, according to plans by Ling & Haire, architect, city; J. G. Link owner.

**Mo., Kansas City**—Preliminary plans in progress for home for aged women, cost \$100,000; G. H. Nettleton Home association, owner, care J. F. Downing, president, New England National building.

**Neb., Norfolk**—Plans being prepared by G. E. Townsend Construction Co., city, for a brick hotel for South Norfolk.

**N. D., Casselton**—Old Badger hotel burned; loss \$5,000.

**N. D., Kenmare**—Theo. Kahallek has brought a site and will build \$75,000 hotel; plans call for 3-story building, pressed brick, and full basement; 62 guest rooms, 12 with bath, 20 with water, and 20 without, fireproof, tile floors.

**Ore., Junction City**—J. A. Hoshier, proprietor of hotel recently burned, will erect brick and concrete building costing \$55,000.

**Wash., Mt. Vernon**—Community discussed feasibility of organizing hospital association; Dr. F. B. West and others interested.

**Wis., Green Bay**—Deaconess hospital directors to take steps toward building new institution to cost \$60,000; Wm. Larsen, president board directors.

**Wis., Menomonie**—The Charles house will be repaired at a cost of \$3,500 to \$4,000; Mrs. Chas. Kahle, owner.



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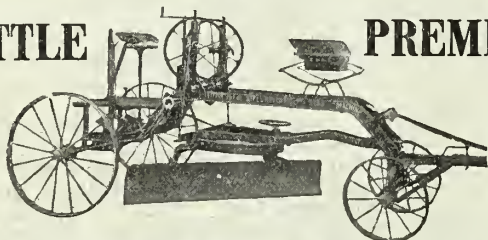
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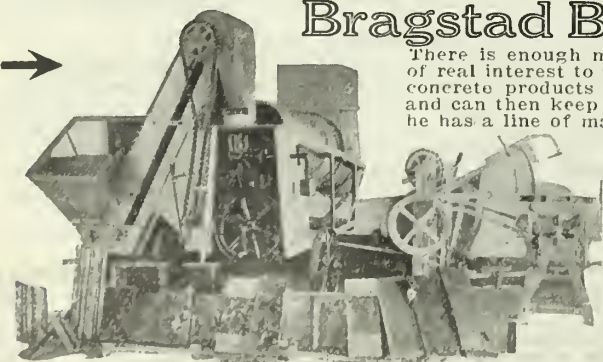
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Wis., Mondovi—Discussion proceedings on community hospital proposition; address Ole Wik for information.

Wis., North Lake—An addition will be built in rear of his hotel by Chas. Tannis, and interior somewhat rearranged.

Wis., Superior—Campaign will be conducted by Catholic diocese of Superior for \$100,000 for an orphan's home to be built here; Chas. J. Sheffield in charge of the financial campaign, at Superior hotel.

#### BIDS WANTED.

Minn., Barnesville—J. W. Bernardy, owner, will take bids about April 1 on hotel; 70x80, 3-story and basement, \$30,000; Hoffman & Mosse, architects, Rochester, Minn.

Wis., Jefferson—Bids taken by Brust & Phillips, architects, Camp building, Milwaukee, after March 22, on erection of an addition to St. Colletta's institute for feeble-minded, Jefferson, Wis.; solid brick, 3-story and basement, 114x62; specifications include fire escape, three steel tanks, monolith floors, dumb waiter.

#### CONTRACTS AWARDED.

Iowa, Des Moines—J. C. Wardis, 412 Hubbell building, has contract to build for Des Moines Hospital Co., on percentage basis; 50x100, 3-story and basement, \$75,000.

Iowa, Des Moines—Contract to E. W. Nichols, 708 8th st., for maternity hospital, Benedict home and bungalow; 3-story and basement, \$25,000.

Iowa, Mason City—Contracts awarded as follows on St. Joseph Mercy hospital: lighting and wiring awarded St. Paul Construction Co., St. Paul, at \$2,950; plumbing and heating to Tenehan & Malo, Dubuque, Iowa, inside building, \$19,138; Buechner & Orth engineers, St. Paul, Minn.

Minn., Red Lake—Contract to National Construction Co., Alexandria, Minn., for frame hospital at Red Lake agency, at \$19,140.

Neb., Kearney—Contract to Walter Knutzen, city, for the tubercular hospital at \$52,120; heating and plumbing to the Wyatt Co., of Lincoln, at \$3,850; and wiring to American Electric Co., of Lincoln at \$490.

Neb., York—Contracts for the Lutheran hospital here have been awarded as follows: construction, Trenton Building Co., Lincoln; plumbing, W. J. Chambers, York; light and power, York Gas & Electric Co.

Wash., Seattle—Contract to David Dow, 21st av. and E. Spruce st. for alterations to Oxford hotel.

Wis., Wyocena—Contract to Kutzke Brothers of Portage for basement of county hospital at \$752.

### MILLS AND FACTORIES

Iowa, Marshalltown—Plans prepared for extensive improvements in R. Huml packing plant; large addition; cost \$50,000.

Minn., Faribault—Chase Packing Co., Faribault, has reorganized with capital of \$500,000 and will build new buildings, to cost \$100,000.

Minn., Minneapolis—Minnesota Fibre Bottle Co., 307 Kosota block, will erect a 2-story brick factory, at 65 22d av. NE.; cost about \$30,000; contract let.

Mont., Hamilton—Fruit and vegetable canning factory may be installed in Bitter Root Valley, J. W. McKinnon, interested; cost about \$15,000.

Neb., Fairbury—Williams & Harlan, contractors and builders, will erect modern planing mill.

Wash., Tacoma—Plans are being matured for erection of mill for manufacture of writing paper; cost \$300,000; Henry Hewitt, Jr. and D. Den Bleyker, interested.

Wis., La Crosse—The Wisconsin Button Co. will build factory, \$20,000; 15,400 feet floor space; plans in hands of contractor. C. W. Noble; work to start soon; 1-story and basement, brick and concrete, L-shaped, concrete stairway and plate glass, oak finish and trim, tile floors.

Wis., Wausau—Farmers' Co-operative Packing Co. will erect a plant; plans will be prepared by Messrs. Gardner and Lindberg, engineers; cost about \$100,000; M. B. Rosenberry, president.

#### CONTRACTS AWARDED.

Minn., Wendell—Contract awarded to Larson Brothers, of Starbuck, Minn., at \$4,664, for 1-story brick creamery building; other bids: Mack Construction Co., Tintah, Minn., \$5,027; Ole Roseland, Minneapolis, \$4,000; T. T. Stuverud, Elbow Lake, Minn., \$4,293; Harrison Brothers, Elbow Lake, \$4,158.

Neb., Beatrice—Contract awarded to Dom McColeary for new laundry building for Model Cleaners' 28x70, 1-story; cost \$2,000.

### ELEVATORS

Iowa, Akron—Huntington Elevator burned; loss about \$25,000; Boysen Ross, manager.

Iowa, Ida Grove—A. B. Boll will erect a farmers' co-operative elevator.

Minn., Crookston—Contract awarded for elevator for the Crookston Milling Co.

Mont., Conrad—Fire destroyed Montana Central Elevator; loss \$42,000.

Mont., Gage—Roundup Elevator Co. will erect an elevator soon.

Wis., Milwaukee—Kurth Co., will add to Milwaukee elevator, increasing capacity from 450,000 to 800,000 bushels.

### ELECTRICAL

Mont., Ft. Benton—Control of Ft. Benton Electric Lighting Co., Ft. Benton, purchased by Montana Power Co., Great Falls, which will overhaul system, install new electrical equipments, etc.; J. R. Hobbins, local engineer.

Neb., Seward—The Blue River Power Co. will within the next 6 months purchase water wheels, generators, transformers and other station apparatus; Burdette Boyes, secretary.

Wis., Friendship—Friendship Light & Power Co. plans to purchase a generator, one water wheel governor, fly-wheel and belt, also 100 poles, 3 transformers, 6 pairs of lighting arresters, 32 meters, 100 pounds wire, 300 incandescent lamps, 3 washing machines and 25 flatirons; Geo. Polivka, president.

Wis., Hustiford—Hustiford Light, Power & Manufacturing Co. plans to erect within the next five or six months, from 4 to 5 miles of transmission line; also to purchase within 3 or 6 months, 7 or 8 transformers and within the next 12 months, one voltage regulator; W. H. Rohrschneider, secretary.

Wis., Lomira—Lomira Light & Power Co. plans to purchase 10 meters, several washing machines, flatirons and some wiring supplies, in about 6 months; Wm. J. Watts, secretary.

Wis., Merrillan—Village expects soon to purchase poles and cross arms, to rebuild some of the lines of the municipal electric lighting plant; W. D. Cook, superintendent.

#### BIDS WANTED.

\*Iowa, Larchwood—Bids received by W. F. Ashton, town clerk, until 1 p. m., April 21, for an electric lighting system. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

Minn., Duluth—Bids will be received until April 5, 8 p. m., for three gas storage tanks 8 feet in diameter and 36 feet long, f. o. b., city of Virginia; plans at office of water and light commissioner; check 15 per cent; C. T. Harding, engineer.

Minn., Mankato—Bids will be advertised for at once on a white way for Mankato; four 1,000 candle power lights, to the block, from Vine to Byron, and two 1,000 candle power lights, to block from Byron to Marshall; separate bids on nitrogen filled lamps and luminous arc lamps, separate bids on posts; bids to be opened about April 12; cost about \$2,500; address City Engineer Bloomquist.

N. D., Bismarck—Bids will be received until April 7, 3 p. m., for installation of an electric light plant in the courthouse and jail and around grounds; check 5 per cent; address county auditor; T. E. Flaherty.

Wis., Marinette—G. H. Landgraf, superintendent of city schools, will take bids until March 29, for electrical work on the new \$125,000 high school; John D. Chuobb, Chicago, Ill., architect.

#### CONTRACTS AWARDED.

Iowa, Charles City—Charles City Western Railway Co. will electrify its line and extend road, contracts awarded as follows: for two big all steel interurban cars and two all steel street cars, and 40 ton electric locomotive, to the McGuire Cummings Co., Chicago; motors to Central Electric Co.; ties and poles to the Northern Timber Supply Co., of Warroad, Minn.; grading, Pete Shuggart, of Nevada; work to begin soon.

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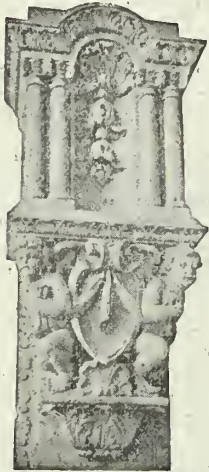
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## THEATRES AND HALLS

**Iowa, Audubon**—Committee appointed to consider and report on the advisability of building club house for the Audubon Country club, to cost \$1,000 to \$1,500; E. S. Van Gorder, secretary.

**Iowa, Brighton**—Odd Fellows have purchased site and have plans in preparation for hall; bids probably this season.

**Iowa, Cedar Rapids**—Preliminary plans under way for coliseum, exposition hall and auditorium, to be owned by the city; seating capacity of 5,000; address city clerk.

**Iowa, Clear Lake**—Masons have decided to buy site for a temple; address secretary order.

**Iowa, Council**—Plans under way for remodeling of the old Dohany theater by Barney Gilinsky, owner; Fred Cox, architect.

**Iowa, Inwood**—Plans being formulated by Rev. F. P. Quick for a boys' club house to cost \$8,000.

**Iowa, Mt. Vernon**—Site has been chosen for opera house to be built with funds from the Hardacre estate; address the mayor.

**Iowa, New Hampton**—The fire department is planning construction of a new opera house; address the mayor.

**Iowa, Ottumwa**—Preliminary plans being made for proposed club house for Wapello club; Geo. M. Kerns, architect, 211 E. 2d st.

**Iowa, Sheldon**—Masons have accepted site for temple offered by Mrs. Benjamin Jones; cost to be \$15,000 for building; J. L. Kennedy, chairman, building committee; probably 3-story, fireproof.

**Iowa, Sioux City**—Plans under way for remodeling and enlarging Grand theater building by the Sioux City Investment Co., Herman Galinsky, secretary; cost to be about \$35,000.

**Iowa, State Center**—Masons raising \$25,000 to build temple this season; address secretary, lodge.

**Mont., Antelope**—Farmers planning to build a club hall; address the mayor.

**Mont., Glentana**—The Glentana Hall Co. incorporated to build a \$5,000 hall for public uses; address secretary company.

**Mont., Bozeman**—Bids have not been called for as yet for the tile for the Y. M. C. A. building; address secretary of the association.

**Mont., Glasgow**—The International Theatrical Association has been organized here and will erect a modern theater building this spring; D. Coburn, Malta, Mont., is one of the incorporators.

**Mont., Glendive**—Manager Lamb announces work is to begin at once on addition to New Orpheum theater; about 50x50, 2-story, brick, includes stage equipment, etc.

**Mont., Lewistown**—Plans for proposed Y. M. C. A. building being considered; address the secretary.

**Mont., Miles City**—New moving picture building is planned by E. H. Phillips.

**Mont., Missoula**—Plans being drawn for new agricultural hall at the fair grounds, by Ole Bakke, architect, city.

**Neb., Fremont**—Plans progressing for erecting joint building for about 15 lodges which have no home of their own; address the mayor.

**Neb., Grand Island**—Sentiment among the Elks is in favor of building a club room; address the secretary.

**Neb., Omaha**—Knights of Columbus will build a \$60,000 lodge home; address the secretary.

**Neb., Palmyra**—A new set of plans for proposed opera house, estimated to cost \$4,000, is now at the Bank of Palmyra.

**N. D., Minto**—Site has been purchased and picture theater to be built, raised floors, etc.; address the mayor.

**S. D., Broadland**—Plans started for proposed Odd Fellows' lodge hall and business building; 2-story and basement, 80x30, brick, stone, steel, cement, plate glass, mill work, hardwood floors and finish, heating, lighting, plumbing, etc.

**S. D., Conde**—Encouragement is being given W. W. Pounds, city, to build a modern opera house.

**S. D., Viborg**—Odd Fellows planning erection of lodge building; brick; address secretary, lodge.

**Wash., Pomeroy**—Knights of Pythias have under consideration construction of new building.

**Wash., Seattle**—Plans being prepared by Warren H. Milner, Arcade building, for a theater and office building, which Jas. Q. Clemmer intends building, to cost \$1,000,000.

**Wis., Antigo**—Plans formulated at mass meeting, to raise \$50,000 for Y. M. C. A. building; address secretary organization.

**Wis., Antigo**—Plans completed by C. F. Dahlman, architect, for lodge and office building for Julius Schoblasky; 53 by

120 feet, 2-story and basement, brick and steel, steam heat, \$20,000.

**Wis., Ladysmith**—Odd Fellows have leased the Worden opera house for fraternity purposes and will have it remodeled by adding kitchen, sink and toilet accommodations, metal ceiling, replastering and repainting.

**Wis., Menasha**—Movement under way for erection of a club house for the boys of Menasha, to cost \$30,000; Rev. Jno. Hummel, of St. Mary's church, for information.

**Wis., Milwaukee**—Plans in progress for remodeling store into moving picture theater; Badger Investment Co., care J. M. Ettenheim, Merrill building.

**Wis., Milwaukee**—Plans to mature soon for moving picture theater for F. J. Schmidt, builder, 664 Jackson st.; 1-story.

**Wis., Milwaukee**—Following picture theater buildings are contemplated: Thiel & Woltersdorf, Caswell building, 1-story, \$10,00; American Photoplay Co., care Ben Rubin, Manhattan building; and F. Miller Brewery Co., 39th and State sts.

**Wis., Spooner**—A. D. Burnett contemplates building store and lodge hall, 2-story, 50x125, brick and stone, for his own use and that of the Masonic order.

**Wis., Wausau**—The Deutscher Arbeiter Unterstuetzungs verein will erect an addition to its building, 60 feet wide and extend back 90 feet; front will be remodeled; solid brick.

### BIDS WANTED.

**Iowa, Des Moines**—Bids being taken by Abe Frankel, care of Architect N. T. Vorse, S. & L. building, for remodeling of Casino theater; 44x132; Iowa Amusement Co., owner.

**Iowa, Sioux City**—Reported bids are about to be asked for lodge building for Elks to cost \$70,000; lodge No. 112.

**Minn., Rochester**—Bids are being taken by Rochester Commercial club, care E. C. Hackett, 105 N. Clark st., for addition and remodeling of club house; 22x60, 2-story and basement, \$14,000.

**Ore., Klamath Falls**—Reported bids wanted April 1 by Houghtaling & Dougan, Henry building, Portland, for a lodge building for the Elks, costing \$50,000.

**N. D., Montpelier**—Bids are being taken by A. R. Negus, Montpelier, for a hall in Severn township.

**Wash., Bremerton**—Bids to be called for at once by Max Umbrecht, architect, Hotel Rector, Seattle, for moving picture theater for Orson Amusement Co., 2-story, reinforced concrete, \$65,000.

**Wis., Kenosha**—Bids received by Leo H. Flasch, chairman, building committee, until 5 p. m., April 5, for club house for the Elks; former bids having been rejected.

**Wis., Milwaukee**—Bids will be taken April 15, by Kirchoff & Rose, architects, Majestic building, for proposed theater, office and store building for the Palace Theater Co., care Herman Fehr, Majestic building; 150x250, 4-story and basement; \$350,000.

**Wis., Milwaukee**—Bids to be taken after March 24 for new Masonic temple, Kenwood lodge, No. 303, A. F. & A. M., by Leenhouts & Guthrie, architects, 424 Jefferson st.; solid brick, terra cotta facing, hot water heat, 55x115, 3-story and basement; Geo. A. Moehle, W. M.

### CONTRACTS AWARDED.

**Iowa, Cedar Rapids**—Contract to Loomis Brothers for the new theater building for Palace Theater Co.; 60 foot front and full depth of the lot; exterior front to be of onyx and marble, lobby and arcade to be thoroughly metropolitan, 20-foot canopy across walk, all to be brilliantly lighted; cost about \$75,000.

**Mont., Victor**—Contract to Peterson & Horning for the Masonic building here.

**Neb., Leshara**—Contract to Geo. Hess for town hall.

**N. D., Bottineau**—Contract to E. A. Moline for a modern theater here; P. B. Ferguson, owner.

## CHURCHES

**Iowa, Davenport**—The congregation of St. Paul's church has decided to make improvements to parish church; cost about \$15,000.

**Minn., Mankato**—Plans being prepared by Albert Scrippel, architect, Mankato, for a church, for the Evangelical Lutheran St. John's congregation; brick, 36x72; cost \$10,000; Rev. M. F. Abraham, pastor, R. R. No. 1, Arlington, Minn.; steel trusses; owners will purchase art glass.

**Mont., Billings**—Plans are being prepared by Dedrick & Piper, Billings, architects, for new Presbyterian church; O. J. Thomas, H. J. Ries, and others, committee.

**Mont., Billings**—First Presbyterian church will build this summer; cost \$40,000.

**Mont., Columbia Falls**—The Episcopal Congregation will



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erect a new church this spring.

**Mont., Worden**—German Lutheran church will be erected by German Lutheran St. Paul's Geheinde of Worden; Jacob Herman, director.

**S. D., Aberdeen**—Work will soon begin on remodeling of Christian church; it is stated that the First Church of Christ Scientist will build.

**Wis., Lodi**—St. Patrick's Catholic congregation will enlarge their present building by addition of 25x50, new steel ceiling, with fresco effect; cost about \$2,400.

**Wis., Sharon**—Christus Evangelical Lutheran congregation will build a brick and stone edifice; cost about \$12,500, seat 350; Rev. H. Heidenweh, pastor.

**Wyo., Rock Springs**—D. D. Spani, architect, is preparing plans for a modern Catholic church at Rawlins, this spring, for the St. Joseph parish; cost \$22,000.

#### BIDS WANTED.

**Iowa, Cedar Falls**—Contract awarded to Sam Meyer for German Lutheran Congregational church, this spring; cost \$5,000.

**S. D., Aberdeen**—Bids received until April 5, 4 p. m., for First Church of Christ Scientists, including all material and work; Geo. F. Fossum, architect; check 4 per cent.

**Wis., Endeavor**—Bids received until April 10, for new church for the Moundville M. E. church, by the building committee, J. F. Topping, secretary; plans at office of secretary.

**Wis., Strum**—Bids received till 2 p. m., April 15, for construction of Norwegian Evangelical Lutheran church; plans by Silas Jacobson, architect, Capital Bank building, St. Paul, Minn.; particulars in official advertisement in the Improvement Bulletin this week.

#### CONTRACTS AWARDED.

**Minn., St. Paul**—Contract awarded to Wilfred La Londe, 1790 Grand av., for redecorating of the interior of church of the Assumption, Franklin and W. 9th sts., in oil, at \$3,890; Rev. Father A. J. Losleben, pastor.

**Neb., North Bend**—Contract awarded to Armstrong & Chapman, for new Catholic church; cost about \$30,000.

## SCHOOLS

**Iowa, Cedar Rapids**—A. N. Palmer, president of the Cedar Rapids Business College has purchased site and will erect a modern college building.

**Iowa, Manilla**—Bonds in sum of \$45,000 were voted for school.

**Iowa, Muscatine**—Bonds of \$1,600 for new school were voted and carried.

**Iowa, Persia**—School board will erect school soon.

**Iowa, Sioux City**—Architect W. L. Steele is preparing plans for a parochial school for Rev. Geo. F. Wessling of Coon Rapids; cost about \$20,000.

**Iowa, Waterloo**—Plans by J. G. Ralston, Waterloo, architect, for school addition, 44x68, bids received until April 26; fireproof, face brick, plumbing, showers, blackboards, vapor heat, fan ventilation, motor; cost \$25,000.

**Iowa, Waukon**—Plans in hands of contractor Beeler for new school in district No. 5, Ludlow township; 26x32, pressed brick, basement room finished for public gatherings.

**Iowa, Wilton Junction**—Bonds of \$27,000 were recently voted for new school, and Nichols plans construction of a modern building soon, to replace one burned recently.

**Minn., Anoka**—Bonds in sum of \$25,000 were voted for new school, here to replace Franklin building, carried.

**Minn., Rochester**—Board of education will ask for \$87,500 bonds for erection of three schools; one in west end; one near Northrop school and one on Holme's school grounds; Mrs. Witherstine, president, board; Ellis Bratager, clerk.

**Mont., Three Forks**—The Upper Spring Creek school burned, will be rebuilt at once.

**Neb., Columbus**—Board of education voted to build a Highland Park school; brick, 2-room and basement.

**Neb., Oakland**—Special meeting will be held April 6, by voters of school district No. 14, to vote on proposition of new school.

**N. D., Fortuna**—Bond issue of \$4,200 was voted and carried for new school.

**N. D., Nome**—A new school is projected for consolidated district No. 31; also new school for district No. 36; M. T. Rye and Nels Gjovig, interested.

**N. D., White Earth**—Public school building burned, valued at \$11,000, insured \$5,000.

**S. D., Bruce**—Bonds for enlargement of public school building, voted and carried.

**Wis., Glenmore**—Proposition carried for erection of a new school at Shirley, Wis.

**Wis., Grand Rapids**—H. T. Liebert, architect, Marathon County Bank, has prepared plans and is supervising construction of the new grammar school building, first unit, cost about \$25,000.

**Wis., La Crosse**—New high school building will include an assembly hall and library hall to seat 300; cost about \$50,000; plans being drawn.

#### BIDS WANTED.

**Iowa, Clarksville**—Plans being prepared by Architect J. G. Ralston, Waterloo, Iowa, for school addition, 40x60, 2-story, steam heat, face brick, Bedford stone, plumbing; cost \$13,000; bids taken April 5, close April 22; Fred Seitz, secretary.

**Iowa, Fremont**—Bids received until April 10, 1:30 p. m., for school in district of Fremont, Mahaska county; check \$1,000; A. P. Norton, secretary, school board.

**Iowa, Le Mars**—Bids received until April 7, 1:30 p. m., for erection of public school in Union township, three separate bids; general work, heating and plumbing; plans by James S. Cox, architect, Estherville, Iowa, and on file at office of German American Bank, Le Mars, and with architect; check of \$15, for (A) and \$10 for (B) and (C); A. L. Dotzauer, secretary, board.

**Iowa, Scranton**—Bids received until April 12 1 p. m., for school; check \$500.

**Minn., Fertile**—Bids received until April 3, 7:30 p. m., for a high and grade brick school, in district No. 44, Polk county; plans by W. F. Broomhall, architect, 710 Alworth building, Duluth, plans with Builders' Exchanges of St. Paul, Minn. and Fargo, N. D., office of board of education and architect; check 5 per cent; J. A. Gregerson, secretary.

**Minn., Kenyon**—Bids changed from April 5 to April 12, on new grade and high school; see official in this week's Improvement Bulletin.

**Minn., Spur**—Bids received until April 10 2 p. m., for school, 2-room and basement, also plumbing and heating; check 5 per cent; plans by Thos. Johnson, Bemidji, Minn., on file with Secretary Prosper Alcee.

**N. D., Bismarck**—Bids received until 2 p. m., April 1, for school building, in Missouri township, Burleigh county; plans by A. Van Horn, architect, on file with C. L. Vigness, county superintendent and Katie Stewart, clerk, Stewardsdale, N. D.

**N. D., Grand Forks**—Bids received until April 27, for first unit of high school, district No. 1, separate bids on the general; heating and ventilating, plumbing and electric wiring; according to plans furnished by Architect W. J. Edwards, Grand Forks; plans on file with architect, Builders' Exchange of Grand Forks, N. D., and Duluth, St. Paul and Minneapolis, Minn.; check 5 per cent; separate bids on lathing and plastering and painting; F. F. Burchard, secretary.

**N. D., Huff**—Bids received until April 13, 2 p. m., for erection of frame school in section 6, plans at office of county superintendent of schools, and the Haight Lumber & Machinery Co., Mandan, N. D., at store of Pitzer Bros.; check \$100; I. S. Elder, clerk, Bonzana, district Huff.

**N. D., Spring Brook**—Bids received until 2 p. m., April 20, for a school, 2-room, in district No. 81; plans at office of district clerk, Epping, N. D. and Spring Brook, N. D. State Bank; check 5 per cent; O. Ellingson, president; M. E. Uffen, district clerk, Epping, N. D.

**N. D., Westhope**—Bids received until 2 p. m., April 3, for school in Stinson district No. 21; plans at office of Imperial Lumber Yard, Westhope, or with District Clerk J. H. Williams, Bentic township; check 10 per cent.

**Wis., Denmark**—Bids received until March 29, for frame school, 34x36, and basement; plans with Leo. J. Lee, architect, and F. J. Kozlovsky's Denmark, R. I.; check \$50; excavating and grading done by district.

**Wis., Racine**—Bids received until April 1, 8 p. m., for west side grade school, by Jas. J. Moritz, secretary, board of education; cost \$90,000; plans by Guilbert & Funston, architects, Racine; solid brick, stone trim, 2-story and basement, 133x178; check 5 per cent.

#### CONTRACTS AWARDED.

**Iowa, Albert City**—Contract awarded to Northwestern Construction Co., of Fonda, Iowa, for Lincoln consolidated school.

**Minn., St. Cloud**—Bidders and bids for the Lincoln school: general construction, Rundquist Brothers, \$16,194; Ed. M. Wahl, \$13,585; Ed. Hirt, \$13,600; Carl Kropp, \$12,958; C. D. Hudson \$12,800; A. G. Wahl, \$12,500; contract awarded to A. G. Wahl for \$13,723 with all the extras. Heating and ventilating: J. P. Adamson & Co., \$5,687; M. J. O'Neil, \$5,652; Geo. M. McGeary & Son, \$6,288; John D. Roberts, \$5,925; J. P. Bisenius, \$5,541; J. P. Munsinger, \$6,416; Sanitary Heating & Plumbing Co., \$5,188; H. Kelly & Co., \$5,785; Tunstead Heating Co., \$5,963; Wm. M. Splein Co., \$6,998; Powell Hardware Co. \$5,406; contract awarded to Sanitary Heating & Plumbing Co., Sioux Falls, S. D., for \$5,188, using Herbert smokeless boiler. Plumbing: M. J. O'Neil, \$998; Geo. M.



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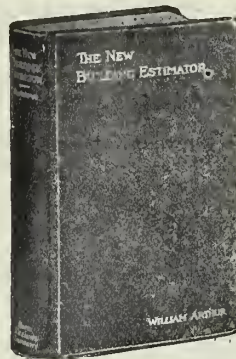
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McGeary & Son, \$1,120; J. P. Bisenjus, \$1,055; J. P. Munsinger, \$1,092; Sanitary Heating & Plumbing Co., \$1,763; contract awarded to M. J. O'Neil, for \$888, using Federal fixtures.

**Mont., Reed Point**—Contract awarded to Hauge & Nepstad, of Big Timber, Mont., at \$1,249, for school in district No. 24.

**N. D., Devils Lake**—General contract awarded to John Henley, of Devils Lake, for cistern, coal, bin, etc., at Lincoln school, at \$759; plumbing, to Jas. Stenson, \$328; other bids were the Devils Lake Plumbing Co., \$357; H. W. Westergaard, contractor, \$867; Nels Nelson, contractor, \$845; James Marshall, architect, Devils Lake.

**Wis., Lodi**—General contract awarded to W. W. Steele of Lodi, for high school; heating and plumbing to Wm. Michel, Lodi.

**Wis., Superior**—James Bradley was low bidder on two temporary school buildings, at \$1,490.

## RESIDENCES

**Neb., Hastings**—C. W. Way Co., Hastings, have prepared plans for a two-family house for Hugo Polsenske; brick and stone, trim, 24x49, 2-story, with basement, oak floors in lower part, hot air heat.

**N. D., Crosby**—Plans being prepared by Robert B. Stacy-Judd, architects, Minot, N. D., for a 2-story and basement residence, cost \$3,500; frame; bids to be taken later, by architect; steam heat, electric lights, wood roof, maple floors.

**Wis., Milwaukee**—Contract awarded by E. Brielmaier & Sons, architects, University building, for convent addition, boiler house and laundry building for Sisters of St. Francis of Assisi, Milwaukee, as follows: masonry, Edward Steigerwald; carpenter, Jos. Luetzgen; concrete, Sterling Engineering & Construction Co., plumbing, W. H. Halsey; heating, Thos. E. Hoyer Heating Co.; electrical, Knoerr & Fischer; the cost is in excess of \$100,000.

**Wis., Sun Prairie**—Contract awarded to Lessner & Hasenfus, for sisters' residence of the Sacred Heart congregation, at \$4,829; does not include the heating, lighting and plumbing system; excavation and brick furnished by congregation; Henry Schey, chairman, building committee.

**Wis., Wausau**—H. T. Leibert, architect, Marathon County Bank building, is preparing plans for a modern brick, stucco residence at Rhinelander, for Judge Steele; also preparing plans for a modern residence for Mr. Kaestle, at Appleton, English domestic architecture, brick and stucco; also plans for a modern home for Henry Berner, of Antigo.

### BIDS WANTED.

**Iowa, Council Bluffs**—Plans by Richard Everett, architect, 2516 Davenport st., Omaha, Neb., for 2-story, 26x28, residence, for F. B. Hickey; bids taken April 1, by owner, and close April 10.

**Wis., Arcadia**—Bids received until March 31, 1 p. m., for a brick parsonage for St. Peter's and Paul's Catholic congregation, at Independence, Wis., Rev. A. W. Gara, pastor; plans by Architect Andrew Roth, La Crosse, Wis., and on file at office of John F. Kulig, also with architect; check \$200; M. G. Susa, secretary.

## BUSINESS BUILDINGS

**Iowa, Belle Plain**—A new business building will be erected by Paul R. Nuench; brick, 1-story and basement, modern. James Park, contractor.

**Iowa, Melbourne**—A modern brick block will be erected by Odd Fellows and contractors, for store and lodge purposes; H. M. Wilsterman, contractor, spring work; 60x80, brick, 2-story, cost \$10,000.

**Iowa, Wapello**—Wapello State Savings Bank has let contract for remodeling its quarters to Modern Electric Co. of Burlington; electric fixtures, hot water heat.

**Iowa, Westby**—Plans prepared by J. Hughes & Co., architects, Charles City, Iowa, for a tile and brick store building, 33x85, cost \$6,000; bids to be taken in about 3 weeks, by owner, Ben Felt.

**Minn., Albert Lea**—Plans in progress for a 6-story and basement office building, for Harm, Erickson & Sibby, cost \$125,000; bids taken about April 10, by owners; brick, stone and terra cotta, composition roof, metal skylights, stone cornice, structural and ornamental iron; Hoffman & Mosse, architects, Rochester, Minn.

**\*Minn., Biscay**—The store and general merchandise stock of Knester Mercantile Co. burned.

**Minn., Fergus Falls**—Plans prepared and bids in for general store, for P. Skaar, 1-story, brick, 25x60, tile, fireproofing,

hot water heat, electricity, composition roof, composition patent plaster, plate glass, tile floors, maple floors; M. J. Alberg, contractor, Fergus Falls.

**\*Minn., Halstad**—Plans under way for a bank building for the First State Bank of Halstad by Architect B. D. Keck, Crookston; 2-story, modern. Bids taken soon; cost, \$10,000.

**Minn., Hibbing**—Plans being prepared by W. T. Bray, 1200 Filicity building, Duluth, for a 2-story and basement, store and apartment building for A. P. Sillwan, Hibbing, taking bids, owner; brick and stone, tar and gravel roof, iron cornice, structural, iron; cost \$10,000.

**\*Minn., Menahga**—Old Weller building will be razed and new structure erected by Jos. A. Salo. Contract let to Henry Hepokoski; steel siding and roofing, steel ceiling, maple floors, Oregon fir finish, cement basement, built-in refrigerator.

**Mont., Bozeman**—A modern business block will be erected by Nelson Story Jr., plans being prepared by Fred F. Willison and Pomeroy P. Vreeland; 3-story.

**\*Neb., DeWitt City**—Fiala & Guhel of Bruno will erect a modern brick block.

**\*Neb., Newman Grove**—An addition will be built on the farmers' store for warehouse.

**\*Neb., Tekamah**—Chris Jeep will erect a brick addition to his present building.

**\*N. D., Brisbane**—E. H. Robinson will erect a modern business building in the spring.

**N. D., Crosby**—Plans are being prepared by Robt. B. Stacy-Judd, architects, Minot, for a 1-story and basement bank; brick and stone, 60x25; cost \$6,000; ready for bids in one month; taken by architect; granite and sand cut stone, common brick, electricity, composition roof, common plaster, plate, prism, wired and leaded glass, tile floors, marble interior, maple floors.

**Wis., Milwaukee**—H. C. Koch & Son, architects, 1045 Wells building, are making final plans for proposed new Waldheim building, for the Ticonic Investment Co., 227 Wells building, and cost about \$250,000, steel, brick and terra cotta, 10-story, 80x135; bids to be called for about April 1; H. A. J. Upham, president.

**Wis., Viola**—The State Bank of Viola is having plans prepared for bank building; cut stone and brick, 2-story and basement, 36x78; cost between \$18,000 and \$23,000; J. S. Hunter, cashier.

### BIDS WANTED.

**Iowa, Cherokee**—Plans nearly completed by Architects Buettler & Arnold, Security Bank building, Sioux City, Iowa, for remodeling of bank building, into store, 1-story and 2-story, 24x100; W. H. Korns, owner; bids taken about April 1; composition roof, metal skylights, structural iron; cost \$5,000.

**\*Minn., Kerrick**—Bids received by Kerrick State Bank, until 1:30 p. m., April 6, for a bank building. Check for 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Minn., Winona**—Bids will be taken until April 4, on 2-story and basement bank building, 21x60, cost \$6,500; brick, hollow tile, composition roof; Architects Van Deusen & Stevens, 63 W. 4th st., Winona; new company owners; address care of A. B. Peterson, Blair.

**Wis., Blair**—Bids received until April 14, 2 p. m., for 2-story and basement bank building, for the First National Bank of Blair; plans prepared by Architects Van Deusen & Stevens, Winona, Minn., on file with architect and Ernest A. Peterson, cashier, Blair; check \$100.

### CONTRACTS AWARDED.

**Iowa, Boone**—The Structural Steel & Iron Co. of Des Moines, Iowa, have contract to furnish steel and iron for the F. W. Woolworth store building.

**Iowa, Hull**—Contract awarded to Geiger Construction Co., of Sheldon, Iowa, for addition to the First National Bank building, cost \$5,000; plumbing and heating to Mason & Mason, of Alton, Iowa; Buettler & Arnold, architects.

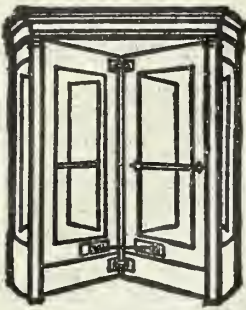
**Minn., Detroit**—Contract awarded to A. S. Randolph and John Mercer, for joint block, to be erected by Geo. W. Peoples, Jesse S. Nunn and Dr. J. V. Dexter, cost \$20,000.

**Minn., Little Falls**—Contract awarded to Frank Kopocz, of Little Falls, for German American Bank, store and office building, heating to the Ryan Hardware Co. and Geo. Terral of Little Falls; plans by Rolland C. Buckley, architect, St. Cloud; cost \$12,000.

**Mont., Billings**—Contract awarded to Piper Construction Co., Billings, Mont., for the Wells-Ordean-Stone Co., other bids were: The Vetch Co., Billings; E. O. Blais, Billings; E. Kringle, Lyle Bros., of Billings; Olson Johnson Co., Missoula; R. J. Martin, Billings; Wm. G. Reed Co., Billings; Horton Willits, Colley & McLean, Billings; T. H. Shankey, architect.



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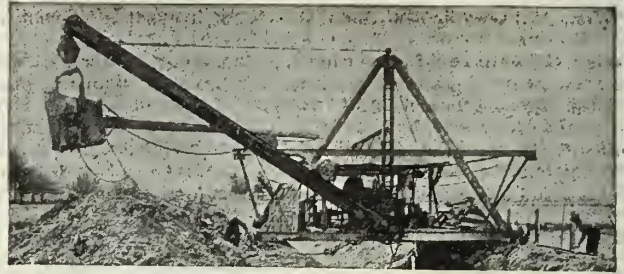
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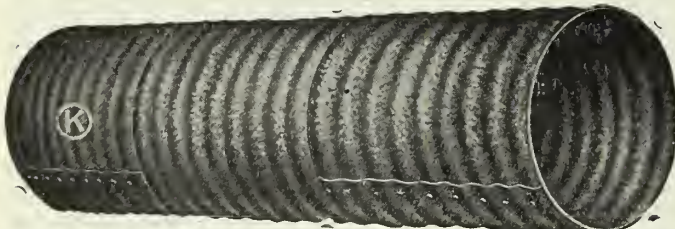
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**\*Wis., Augusta**—Contractor W. E. Johnson has started foundation for store building for W. B. Bremel of Wausau, at Strader; 24x66. Paul Wenzel will do carpenter work.

**\*Wis., Menomonie**—Winona Oil Co. will erect a warehouse and oil tank.

**Wis., Milwaukee**—The Kroening Construction Co., Milwaukee was awarded general contract for fireproof printing plant at 20th and Clybourn sts.; owner's name withheld; brick and tile, 2-story and basement, 36x110; cost \$20,000; Herman J. Esser, Camp building, architect; same architect has awarded additional contracts on \$25,000 factory and warehouse building for Seeboth Brothers; steel and iron, Bayley Structural Iron Co.; sheet metal, Consolidated Sheet Metal Works; plumbing, Jos. Wittig.

## STREET AND ROAD WORK

**Iowa, Corydon**—City council has started proceedings for paving on a number of streets; address city clerk.

**Iowa, Forest City**—Council passed resolution for grading, curbing and paving requiring 32,000 square yards paving, 1,000 yards alley approach, 22,000 lineal feet curb and gutter, 3,000 feet storm sewer; Theo. S. Delay, civil engineer, Creston, Iowa.

**Iowa, Muscatine**—City council about to order paving of the levee; address city clerk.

**Iowa, Muscatine**—Plans now being made for bridge and culvert work to be done on the Muscatine county road system during the year; H. C. Schoemaker, county auditor.

**Iowa, Rockwell City**—Resolution of necessity passed for paving 65 blocks of the principal streets of the city, more than two miles; address city clerk.

**Minn., Bemidji**—Hearing April 2 on state rural highway No. 9 "C," and state rural highway No. 62; J. L. George, county auditor.

**Minn., International Falls**—Engineer Ogaard instructed to advertise for bids for corduroy on state road No. 9.

**Minn., Mora**—Contract to Kenneth Arbe, Ogilvie, for clearing and grubbing state road No. 3 at \$400. A. V. Sander, county auditor.

**Minn., Pine City**—County commissioners have laid out and arranged for state road work amounting to \$31,000, includes grading, surfacing and bridges. Address county auditor, Pine City.

**Minn., Winona**—Bidders on the big road construction work for Winona county, as far as totaled, show Hanlon & Oakes, Sioux City, Iowa, as low bidders on highways 86, 88, 95, and 96, amounting in all to \$211,062; W. F. Smith & Co., Rensselaer, Ind., on highway 89 at \$20,404; Cameron, Joyce & Co., Keokuk, Iowa, highway 87 at \$47,118; W. B. Hutchinson, Michigan City, Ind., highway 85 at \$167,626; no awarded as we go to press.

**Mont., Cascade**—Hearing March 15, on street improvements in special improvement district No. 7, estimated to cost \$1,600; Wm. Pepworth, town clerk.

**Mont., Virginia City**—County commissioners have decided to purchase a new road making machine of modern pattern; address county clerk, Virginia City.

**Mont., White Sulphur Springs**—Hearing April 5 on sidewalks, cross-walks and grading on Main st., estimated to cost \$1,100, and also cement sidewalks, cross-walks and grading in improvement district No. 5, estimated to cost \$7,000; Geo. Wallwork, town clerk.

**Wis., Dodgeville**—Council has voted to pave Main st. with an 18-foot concrete surface; about \$10,000 available; address city clerk.

**Wis., Dodgeville**—Council has decided to build an 18-foot concrete road on Main street, etc., estimated to cost \$9,000. John P. Lewis, city clerk.

**Wis., La Crosse**—Plans ordered prepared and estimates given for paving of 5th st., part with granite asphalt macadam and part with brick; address city clerk.

**Wis., Marinette**—Council has decided to pave on four streets with macadam, concrete and brick, at a cost of about \$14,000; address city clerk.

**Wis., Milwaukee**—Plans being prepared for F. G. Simmons, commissioner public work, for a sandstone block pavement on Grand av., four blocks; date for taking bids not yet decided.

**Wis., Oconomowoc**—Bids received by Clarence H. Schoenike, city clerk, until 4 p. m., April 6, for all cement and concrete sidewalks during the season of 1915.

**Wis., Sheboygan**—Council has begun action for repaving of S. 8th st. from Indiana to Broadway avs., asphalt macadam recommended; plans and specifications have been prepared by board of public works. Address city clerk.

**Wis., Stevens Point**—City has engaged W. F. Reichardt, civil engineer, Watertown, Wis., to prepare plans and specifications for all paving and street improvements for 1915; will require approximately 6,000 square yards reinforced concrete paving.

### BIDS WANTED.

**Iowa, Clarinda**—Bids received by L. A. Wilson, city clerk, until April 8, for 12,700 yards paving.

**Iowa, Dubuque**—Bids received by J. J. Shea, city recorder, until 8 p. m., April 1, for 556 square yards macadam paving in a certain alley; check for \$25. Also, 536 lineal feet cement curb, 780 square yards macadam paving, 20 cubic yards earth filling, and 1,200 cubic yards earth cutting, for improvement of Martha st.; check for \$50. Also, for 1,705 square feet cement sidewalk in Linehan Park addition, and 240 square feet in Home addition; check \$20. Also, in Louisa st., for 270 feet cement gutter, 3,767 square feet cement curb and gutter, 310 cubic yards earth filling, 7,760 cubic yards earth cutting; check for \$350. Also, for 866 lineal feet combination cement curb and gutter, 975 square yards macadam, 50 cubic yards earth filling, 2,024 cubic yards earth cutting, all in Quince st.; check for \$70.

**Iowa, Dubuque**—Bids received by J. J. Shea, city recorder, until 8 p. m., April 1, for 615 square yards of either Hillside brick paving or cement concrete paving in a certain alley; check for \$60.

**Iowa, Keokuk**—City clerk ordered to take bids on paving Exchange and Leighton sts. with cement and 2d st. with asphalt macadam; in all about 10,000 square yards cement and 1,000 square yards macadam, and 4,880 lineal feet curbing; O. W. Sandberg, city clerk.

**Iowa, Muscatine**—Bids received by O. W. Sandberg, city clerk, until 4 p. m., March 30, for paving and curbing on Exchange st., requiring about 10,000 square yards paving and 4,880 lineal feet curbing; also, paving and curbing 2d st. N., requiring 1,000 square yards paving and 600 lineal feet curb; material on Exchange st. to be concrete and on 2d st. to be asphalt macadam, work to begin by April 17, and be completed by Aug. 17; check for \$1,700.

**Iowa, Red Oak**—Bids received by Richard Roberts, city clerk, until 10 a. m., March 31, for grading, paving, curbing and guttering of streets, alleys and alley intersections; check for \$800.

**Mich., Crystal Falls**—Bids received by A. L. Burrige, county road engineer, until 1 p. m., April 15, for five road contracts: No. 25, placing top course of rock on 3½ miles of macadam road, approximately 4,500 cubic yards; No. 26, grading 2 miles, earth excavation of 6,000 cubic yards, loose rock 180 cubic yards, solid rock 100 cubic yards, grubbing 2,600 square feet, clearing 12 acres; No. 27, top course rock on 2 miles macadam road, approximately 2,500 cubic yards; No. 28, grading 3 miles, earth excavation 14,400 cubic yards, loose rock excavation 300 cubic yards, solid rock 180 cubic yards, grubbing 4,200 squares, clearing 24 acres; No. 29, grading 2.8 miles, earth excavation of 14,000 cubic yards, loose rock 600 cubic yards, solid rock 100 cubic yards, grubbing 3,000 squares, clearing 18 acres; check for \$50 on each contract.

**Minn., Bemidji**—Bids received by J. L. George, auditor of Beltrami county, until 10 a. m., March 30, for construction of approach to bridge No. 1549, requiring removal and placing in embankment of 2,005 cubic yards and placing of 8,300 feet, log measure, in retaining wall, estimated to cost \$826; check for 10 per cent.

**Minn., Detroit**—Bids ordered to be advertised for on state roads in the townships of Haven, Palmer, Clear Lake, Becker, Lonia, Blue Hill, Santiago, Orrock and Big Lake. Fred Sachs, chairman county board.

**Minn., Duluth**—Bids received by O. Halden, county auditor, until 9:30 a. m., April 3, for approximately one mile of the Heino road; also, at same time, for one mile of the Miller trunk road, to include graveling.

**Minn., Minneapolis**—Bids received by Al P. Erickson, county auditor, until 11 a. m., April 5, for grading and graveling 9,761 lineal feet of road bed on road No. 8, also 3,840 lineal feet on road No. 82, the first in Maple Grove, and the second in Excelsior townships; check for 5 per cent.

**Minn., Minneapolis**—Bids received by Al P. Erickson, county auditor, until 11 a. m., April 19, for one 600-gallon air pressure oil distributor, also for one 2-horse street sweeper; check for 5 per cent.

**Minn., Slayton**—Bids received by E. V. O'Brien, county auditor, until 2 p. m., April 5, for 10 dump wagons, 4 Fresno scrapers 1 Morman scraper, and 1 No. 5 plow; bids also received for concrete pipe, ranging in sizes from 12 to 36-in. diameter; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 5, for a sewer in Raymond





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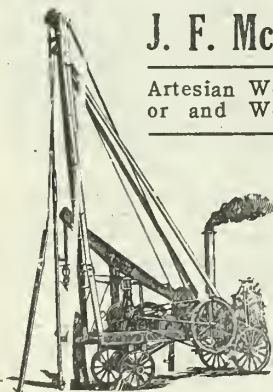


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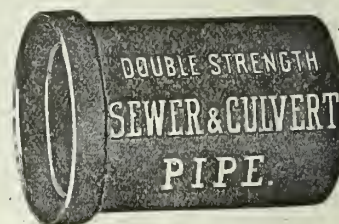
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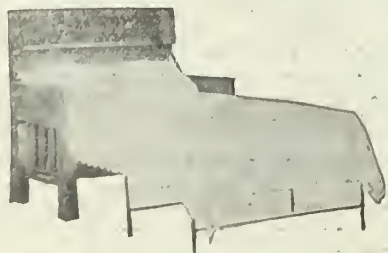
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av.; also, for a sewer in Princeton av., etc.; also, for a sewer in Randolph st., etc.; also, for a sewer in Charlton st., and a sewer in Harvard st., furnish labor and material in each case; certified check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 5, for grading and improvement of Warwick av., Branton st., etc., and alley in block 2, Pierce's enlargement of Summit Park, three jobs; check in each for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 5, for grading and improvement of Warwick av., Branton st., etc., and alley in block 2, Pierce's enlargement of Summit Park, three jobs; check in each for 10 per cent.

**Minn., Virginia**—Bids received by Alberi E. Bickford, city clerk, until 8 p. m., April 6, for corrugated iron or steel culverts as follows: two 30-foot 48-inch, No. 14 gauge; two 30-foot, 30-inch, 14-inch gauge; five 30-foot, 24-inch, 14 gauge; one 20-foot, 18-inch, 166 66ga6uge; and two 30-foot, 12 inch, 16 gauge; check for 5 per cent.

**Minn., Walker**—Bids received until 2 p. m., April 16, for construction of state rural highways, 81 and 83, Cass county, particulars in official advertisement in Improvement Bulletin this week; C. D. Bacon, county auditor, Geo. A. Ralph, engineer, 410 Shubert building, St. Paul.

**Minn., Windom**—Bids received by S. A. Brown, auditor of Cottonwood county, until 1 p. m., April 15, for corrugated iron culverts, sizes ranging from 12 to 36 inches; check for \$50; official advertisement in this issue of the Improvement Bulletin.

**Mont., Missoula**—Bids received by L. E. Harris, city clerk, until 10 a. m., March 31, for constructing sidewalks and curbs for the year 1915; check for \$200.

**N. D., Aneta**—Bids received by C. E. Fodness, city auditor, until May 3, for cement walks and crossings; check for \$50.

**N. D., Bismarck**—Bids received by T. E. Flaherty, county auditor, until 2 p. m., April 7, for grading approaches to bridge; check for 5 per cent.

**N. D., Bismarck**—Bids received by R. H. Thistlewaite, city auditor, until 8 p. m., April 5, for sidewalks in the city during the current year; check for \$50, and also bond for \$500 if contract is secured.

**N. D., Carrington**—Bids received by Kenneth Ferguson, county auditor, until 2 p. m., April 8, for road grading to be done on various roads in Foster county; bids to be by the cubic yard for the different kinds of work.

**N. D., Drayton**—Bids received by R. A. Gilroy, city auditor, until 4 p. m., April 5, for cement sidewalks to be ordered during the year ending April 15, 1916; check for \$25.

**N. D., Fargo**—Bids received by A. R. Watkins, city auditor, until 10 a. m., April 8, for paving and curbing on 2d av. S., etc., with either bituminous concrete, Portland cement concrete, bitulithic or asphalt on concrete foundation; check for \$500; also, for paving and curbing Robert st., etc., with one of several materials; check for \$500; also, for paving and curbing on 6th st., etc., with one of several materials; check for \$500; also, for three other similar jobs; checks in each case for \$500.

**N. D., Jamestown**—Bids received by R. E. Wallace, city auditor, until 8 p. m., April 5, for cement sidewalks for the year 1915; check for \$50.

**S. D., Sioux Falls**—Bids received by Harry H. Howe, county auditor of Minnehaha county, until 2 p. m., April 8, with two or more 12-foot blade graders.

**Wis., Beloit**—Bids received by Geo. P. Haynes, chairman, public works committee, until 2 p. m., April 8, for 128,000 square yards paving, 85,300 lineal feet combined curb and gutter, and 500 lineal feet covered gutter; bids to be received on any or all of the followings types of pavement: creosoted wood block, vitrified block, sheet asphalt, asphaltic concrete, reinforced 2-course Portland cement concrete, tar macadam, mixed method, all on a 5-inch concrete base; bidders must submit separate proposals on from 1,000 to 9,999, on 10,000 to 24,999, and on 25,000 square yards and over.

**Wis., Jackson**—Bids received by Anton Thielman, county clerk, until March 30, for grading, curbing and paving Main st., requiring 3,255 cubic yards grading, 8,216 square yards concrete, water-bound or bituminous, and 4,200 lineal feet cement curb and gutter; check for \$300.

#### CONTRACTS AWARDED.

**Iowa, Alcona**—Contract to Greg Studer, local, for road grading in four townships at 13c per cubic yard for moving dirt 100 feet and 2c additional for every hundred feet over the first hundred.

**Iowa, Burlington**—Contract to Keokuk Quarry & Construction Co., city, for grade curb, with artificial stone, at 92c; Elmer Gochnour, Muscatine, bid \$114.

**Iowa, Perry**—Contract to Jas. Horrabin & Co., Des Moines, Iowa, for bitulithic paving on W. Willis av.

**Minn., Duluth**—Contract to Kettle River Co. for 400 square yards sandstone paving blocks at \$1.65 per square yard, f. o. b. Duluth.

**Mont., Great Falls**—Contract to the Emerson-Brantingham Co., for one model E 6-cylinder, Big Four 45 h. p. gas tractor at \$3,196, f. o. b. Great Falls, and three Sstockland Quick-lift road graders from the Stockland Road Machinery Co., at \$2,250, f. o. b. Great Falls.

**Wash., Ritzville**—Contract to A. H. Zane & Co., Hanford, Wash., for gravel bitulithic paving at \$7,283; J. W. Galbreath, city, was a bidder, at \$8,854.

**Wis., Antigo**—Contract to Inter-State Oil Co., La Crosse, Wis., for 900 barrels of oil for road work at \$3.34 per 100 gallons, f. o. b. Antigo. Other bidders were: Keystone Oil & Manufacturing Co., Appleton, Wis., 3.75 cents per gallon; Pure Oil Co., Minneapolis, Minn., 3.40 per gallon; Alden Spears Co. Sons, Chicago, 3.75c per gallon, all f. o. b., and Standard Oil Co. Whitting, Ind., at 2.75c per gallon and some Wood River, Ill., at 2.50 per gallon, city to pay freight.

**Wis., Fond du Lac**—Contracts will probably be awarded to Rasmussen & Son for reinforced concrete pavements to amount of \$20,057, and to the Murphy Construction Co. for same kind of pavement to amount of \$24,412; final decision probably made April 7.

**Wis., Oshkosh**—Contract to Chris Johnson for 2,200 feet concrete roadway 9 feet wide at 97.5c per square yard, and \$6.50 per cubic yard for the culvert.

**Wis., Richland Center**—Contract to Butler Construction Co., Waukesha, Wis., for paving various streets with asphalt macadam at \$25,904, to be approved by state highway commission; other bidders were: C. W. McNamara & Co., Dubuque, Iowa, with tar macadam at \$25,818, and Nicholas Quinn, Madison, Wis., with concrete, at \$28,965.

**Wis., West Bend**—Bids received by Anton Thielmann, county clerk, until 2 p. m., March 30, for grading, curbing and surfacing of Main street in the village of Jackson, approximating 3,255 cubic yards grading, 8,216 square yards water-bound macadam or bituminous macadam, and 4,200 lineal feet cement curb and gutter; check for \$300.

## SEWER WORK

**Iowa, Clinton**—Election probably held soon to vote \$100,000, and \$6,000 for water extension; address city clerk.

**Iowa, Council Bluffs**—Hearing April 19, on sewers in Aves. G, F, E, and in N. 6th st., involving a large amount of work; Chas. J. Duff, city clerk.

**Iowa, Jewell Junction**—Town council has passed resolution for construction of sanitary sewer system, disposal plant and outlet sewers; M. J. Severson, town clerk.

**Iowa, Sanborn**—Plans maturing for about four miles of sewer and a disposal plant; P. A. Edquist, engineer, Omaha National Bank building, Omaha; J. H. McNell, mayor; expect to take bids about June 1.

**Iowa, Sioux City**—City council has decided to let contracts for three large storm sewer systems, total cost to be \$38,000; work will be rushed to give employment to idle labor; address city clerk.

**Minn., Luverne**—City attorney instructed to prepare resolution for building sewer on Oakley st.; address city clerk.

**Minn., New Ulm**—Plans are being prepared by F. D. Minium, city engineer, for 5,715 lineal feet of 12 to 42-inch sewers, 3,000 lineal feet of 6-inch water mains with 4-inch hydrants, and 4 blocks of street grading; bids to be called for the latter part of April.

**Neb., Bridgeport**—Bonds sold for sewers to amount of \$12,000, and \$6,000 for water extensions; address city clerk.

**N. D., Minot**—Experimenting is progressing to determine what kind of a sewage disposal plant to select for this city; E. J. Thomas, city engineer.

**S. D., Howard**—Election March 30, to vote on issuing bonds in sum of \$24,000 for a sewer system for this city; Jesse Gass, mayor.

**S. D., Watertown**—Plans placed on file for sewers in six separate districts, for which hearing will be held April 3, and then voted on later by the citizens; address city clerk.

**Wash., Aberdeen**—Hearing April 7 on sanitary sewers; work includes 32,000 feet 8-inch vitrified pipe, 12,900 feet 10-inch 2,100 feet 12-inch, 1,500 feet 15-inch, 14,000 feet 20-inch, 1,400 feet 24-inch, 700 feet 30-inch and 3,100 feet 36-inch pipe and 225 manholes; Louis D. Kelsey engineer.

**Wash., Anacortes**—Hearing April 6 on sewers in two alleys; address city clerk.



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**Wis., Manitowoc**—City engineer ordered to prepare plans for proposed sewer on Ella st.; address city clerk.

**Wis., Monroe**—Sewer requiring 1,000 feet of 6-inch vitrified pipe will mature in the spring; F. M. West, mayor.

**Wis., Neenah**—Board public works ordered to take necessary steps for a sewer on Main st. from the slough to the western city limits; address city clerk.

**Wis., Oconomowoc**—Plans in progress for approximately 2 miles of 12, 18 and 24-inch tile storm sewer; W. E. Reichardt, engineer, Watertown; H. J. Schoenike, city clerk. xz

**Wis., Stevens Point**—W. F. Reichert, civil engineer, Marshfield, Wis., has been engaged to prepare plans and specifications for sewer and paving work to be done this year.

**Wis., Superior**—A septic tank to cost about \$1,500 will be installed at the Douglas county farm at Parkland.

#### BIDS WANTED.

**Iowa, Cedar Rapids**—Bids received by L. J. Storey, city clerk, until 10 a. m., March 29, for materials and construction of sanitary sewer and water connections in various streets, avenues and alleys; work to be begun by April 5, 1915, and completed by May 15, 1915; checks for three jobs in sum of \$100 each.

**Iowa, Davenport**—Bids received by J. W. Crowley, commissioner public works, until 2 p. m., April 3, for sewer and water construction service for the season of 1915; check for \$100.

**Iowa, Mason City**—Bids received by J. H. McEwen, city clerk, until 10 a. m., March 27, for three lateral sewers, one of 567 feet, one of 3,782 feet, and one of 2,458 feet; checks for \$100, \$500 and \$1,000 respectively; pipe to be 8 and 15-inch in diameter.

**Iowa, Postville**—Bids received by city clerk about April 1, for sewer system to cost \$25,000; Aetna Engineering Bureau, engineers, Chicago.

**Iowa, State Center**—Bids received by J. W. Sparks, town clerk, until 8 p. m., April 15, for a sewage disposal plant, including septic tank of reinforced concrete of about 50,000 gallons capacity, and two sand filter beds, each about 4,000 square feet area; an outlet sewer of 615 feet of 10-inch sewer and 3 standard manholes; and about 3,085 feet of 10-inch and about 21,128 feet of 8-inch sewer, all to be of best quality hard-burned, salt-glazed vitrified clay pipe, together with all necessary manholes and other appurtenances; plans on deposit of \$10; check for 5 per cent.

**Minn., St. Cloud**—Bids received by Geo. G. Magnuson, city clerk, until April 13, for sewers in district No. 6, requiring 10,063 feet of from 8 to 15-inch pipe sewers, 28 man holes and 4 flush tanks, the material to be excavated in sand; check for \$1,000.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 5, for grading and improvement of Hand st., Fauquier st., a certain alley, etc.; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 5, for a sewer in Harvard st.; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 5, for 3,000 feet 12-inch double strength vitrified sewer pipe, 1,000 feet 9-inch, same, 500 feet 15-inch same, and 500 feet, 18-inch, same; check for 10 per cent.

**Mont., Butte**—Date for opening bids on sewer system postponed from March 17 to March 31; work calls for 13 miles of 8, 10 and 12-inch sanitary sewer; check for 10 per cent; W. J. Flood, commissioner public works; cost, \$130,000.

**S. D., Vermillion**—Bids received by C. I. Vaughn, city clerk, until 8 p. m., March 29, for a sewer in Elm st.; check for \$25.

**Wis., Janesville**—Bids received by Jas. A. Fathers, chairman, board public works, until 2 p. m., April 16, for sewers in districts No. 5, 10, 11, 14 and 15; check for 10 per cent in each case.

**Wis., Oshkosh**—Bids received by R. A. Hollister, chairman, board public works, until 2 p. m., April 6, for sewers in various streets.

**Wis., Sheboygan Falls**—Bids taken by Herman Boldt, village clerk, until 7:30 p. m., March 27, for sanitary sewers on Monroe st., including 1,980 feet 8-inch, 140 feet 10-inch and 9 manholes.

**Wis., Waukesha**—Board of public works ordered to advertise for bids for a storm sewer on East av. and other sanitary sewers ordered on various streets aggregating over 2,000 feet; address city clerk.

**Wis., Whitewater**—Bids will soon be taken on sewer system and disposal plant; W. G. Kirchoffer, engineer, Madison, Wis.

#### CONTRACTS AWARDED.

**Iowa, Burlington**—Contract to Young & Buscher Construction Co., city, for storm and sanitary sewers at \$1.22 per foot, in all 16,900 feet vitrified pipe sewer from 8 to 36-inch; H. G. Vollmer, city engineer.

**Iowa, Leon**—Contract to Geo. M. King, Des Moines, Iowa, for sewer work at \$33,896, and to Pickus Engineering & Construction Co., Sioux City, for the disposal plant at \$8,874.

**Iowa, Onawa**—Contract to C. B. Reynolds, Council Bluffs, Iowa, for purification plant at \$11,867, and to the Inter-Mountain Bridge & Construction Co. of Tecumseh, Neb., for sanitary sewers at \$38,382; for this latter there were over 20 bids, the highest being by Lewis Anderson of Turin at \$81,520; entire work to be completed by Nov. 15.

**Wis., Fond du Lac**—Contract to Frank P. Cayll, Waukesha, Wis., for all sanitary sewers at a total amount of \$4,317; calls for 2,707 feet of 8-inch, 2,558 feet 10-inch, 1,662 feet 12-inch pipe, 13 manholes, and 6 flush tanks; contract for storm sewer to Chester Bogk, a small job. The second lowest bid on the sanitary sewer was by A. C. Schreiter, city, at \$4,414; there were more than a dozen bids in all.

**Wis., Watertown**—Contract to F. E. Kaminski for approximately 4,780 feet of sewers ranging from 8 to 18 inches in diameter.

## ☞ DRAINAGE AND IRRIGATION

(Culvert news in this department.)

**Iowa, Algona**—Contract let to Oleson Brothers for district 108, at \$2,503; district 5, to Halvor Wick, Lake Mills, \$8,501; C. E. Paine, Algona, engineer.

**Iowa, Mason City**—S. D. Keerl was appointed engineer for district 24-27; C. H. Stevens, engineer, district 25.

**Iowa, Rockwell City**—Surveys are being completed for Cedar drain; 206,000 acres; cost \$400,000.

**Minn., Aitkin**—New proceedings probably will be started to construct county ditch 30, on resurvey, leaving out features objected to by the court.

**Minn., Slayton**—Hearing April 5 on judicial 12.

**Wis., Ladysmith**—Bruno Lake drainage district commissioners will advertise soon for bids.

**Wis., Rhinelander**—Court granted petition for Three Lakes drainage district; 3,000 acres marsh; dredges; 20x8; to be completed Oct. 1, 1915.

#### BIDS WANTED.

**Iowa, Nevada**—Bids received until 12 m., March 31, for construction of Indian Creek district 66; check 10 per cent; F. E. King, auditor, Story county; bids received until 1:15 p. m., March 31 for New Albany district 69; check 10 per cent.

**Minn., Foley**—Bids received until 11 a. m., April 22, for construction ditch 13, Benton county.

#### CONTRACTS AWARDED.

**Minn., Buffalo**—Contract awarded to James Corr, 1312 7th St. SE., Minneapolis, for ditch 22, Wright county.

**Minn., Owatonna**—Contract awarded to Clark Construction Co., Clinton, Iowa, for judicial ditch 2.

**Wis., Racine**—Contract awarded on Somers, Drain district, to Cole Brothers, Nappan, Ind., at \$8,390.

## ☞ BRIDGES

(Culvert news in this department.)

**Ida., Hagerman**—The Hagerman Valleg Users' Association, Geo. Hulme, secretary, will extend and improve their water plant and system, to include 800 siphon and large amount of pipe extension.

**Iowa, Burlington**—Water works bonds were sold to Emery, Peck & Rockwood Co.

**Iowa, Decorah**—The \$6,000 issue of bonds for water works system carried.

**Iowa, Marcus**—Bond issue was voted and carried for installation of a water system.

**\*Iowa, Mason City**—Bids in but no contract awarded yet, on wiring and electric fixtures at the pumping station.

**Iowa, Spillville**—Proposition will be submitted to voters on water works system; address city clerk.

**Wis., Menomonie Falls**—A special election will be held April 6, on question of issuing \$20,000 in bonds for new water mains, standpipe, and reservoir; J. W. Cannon, clerk.

**Wis., New Richmond**—Cashier L. A. Baker of the Manufacturers' Bank, has purchased the bonds of \$12,000 for Hayward's water works system.

**Wis., Waterloo**—The water and light commission closes bids March 29, for building, erecting and connecting of the breeching of the boiler one steel or brick smoke stack, 85 feet high; Ed. A. Peters, village clerk.

#### BIDS WANTED.

**Iowa, Goldfield**—Bids will be received until April 2d, 3 p. m., for complete system of water works; check 10 per cent; approximate list of quantities as follows: 40,000-gallon steel



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**Mont., Medicine Lake**—Bids received until April 12, 8 p. m., for purchase of \$18,000 bonds for a municipal water works system; check 15 per cent; Halvor Everson, town clerk.

**Wis., Milwaukee**—Geo. F. Staal, city engineer, expects to complete plans March 27, for proposed 9-foot shore tunnel, to connect the new Linnwood av. intake with N. Point pumping station, about 5,000 lineal feet; cost \$225,000; bids early in April.

#### CONTRACTS AWARDED.

**Iowa, Nora Springs**—Contract for the city water system awarded to a Des Moines firm.

**Iowa, Sioux City**—City council has awarded contract for 450 water meters to the National Meter Co. and awarded to the H. Mueller Manufacturing Co., contract for brass goods and stop boxes.

**Kans., Newton**—Contract awarded to Layne & Bowler, Houston, Tex., for drilling test wells, and pump station.

**\*Minn., Minneapolis**—Contract to the Allis-Chalmers Co., of Milwaukee, for two electrically driven centrifugal pumps, to be used in connection with Washburn Park tower; cost \$2,230.

**Mont., Billings**—Following contracts were awarded on water works system: six concrete settling basins, 6,000,000 gallons daily capacity, cast iron, pipes, Hanlon & Oakes, Sioux City, Iowa, at \$71,790; entire water works extensions, including about six miles of cast iron pipe, to Gordon-Taylor Co., of Denver, at \$34,709; filter equipment, including sand beds and machinery, Pittsburg Filter Manufacturing Co. of Pittsburg, Penn., at \$35,175; pump and motor, Hanlon & Oakes, Sioux City, at \$1,950.

#### WATER WORKS

**\*Iowa, Eddyville**—Following bridges will be built in Manassha county during coming year: four on White Way; three on Eddyville road; one on Beacon road; four on Knoxville road; and two on Montezuma road; by the county supervisors.

**Iowa, Fort Madison**—Board of supervisors passed a resolution of necessity providing for advertising of bids for following bridges and culverts; McGreer bridge; Lew Faeth bridge; McKeehan bridge; Cruze bridge; Vogt bridge; Scovern bridge; Vincennes bridge; Surena culvert; Klinger culvert; Schoffler culverts; address board.

**Iowa, Primghar**—Contract awarded to the Federal Bridge Co., of Des Moines, Iowa, for 22 bridges and culverts in county during year, at \$13,119; other two bridges will be built by county crews.

**Minn., New Ulm**—Contract awarded on the Buessmann & Courtland high bridges, steel and concrete approaches, to M. A. Adams & Co., Andrus building, Minneapolis, at \$4,620; other bids received were: Chas. Lenhardt, New Ulm, Minn., \$4,725; A. Puhlman, New Ulm, \$6,000; DeGraff Wolff, St. Paul, Minn., \$5,595; Iowa Bridge Iron Co., Minneapolis, \$4,750; Hohle Bros. Minneapolis, \$5,580.

**Minn., Virginia**—City engineer was instructed to prepare plans for a bridge over channel joining Silver and Virginia lakes.

**\*Mont., Red Lodge**—Special election will be held June 1, to vote on issue of \$50,000 bonds for construction of bridge in Big Horn county; address county commissioners.

**S. D., Watertown**—Bridge will be erected across Willow creek.

**\*Wis., Carryville**—A new bridge will be built at Rock Falls.

**Wis., De Pere**—A special election will be held April 6, to vote on \$15,000, bond issue for rebuilding the draw-bridge at Main av. and George st., cost \$21,000; \$6,000 already available.

**\*Wis., De Pere**—Special election will be held April 6, for purpose of voting on issue of \$15,000 bonds for repairing of bridge across Fox river; Ed. Janssen, city clerk.

#### BIDS WANTED.

**Iowa, Algona**—Bids received until April 8, 10 a. m., for one or more cars of fir lumber for bridge work for 1915; check \$50; address E. H. Beardsley, county auditor.

**Iowa, Algona**—Bids received until April 8 1 p. m., for metal culverts from 8 to 32 inches, for 1915; check \$50; E. H. Beardsley, county auditor.

**Iowa, Des Moines**—Bids received until March 29, 12 m., for four concrete bridges Nos. 207 and 231, Madison township, 347 Douglas township, 870 Walnut township, Polk county;

plans at office of county engineer, Des Moines, Iowa; check 10 per cent; H. L. Barquist, chairman, board of supervisors.

**Iowa, Dubuque**—Bids received until March 31, 10 a. m., for construction of thirteen culverts in Dubuque county, concrete; John Inghram, county auditor.

**\*Iowa, Eldora**—Bids will be received until March 31, 10 a. m., for following bridges and culverts: Nos. 15263, steel 18-foot roadway, 65-foot span, cost \$3,600; No. 10176, concrete, 20-foot roadway, two 34-foot spans, cost \$2,800; No. 7463 concrete, 20-foot roadway, one 30-foot span, cost \$2,500; No. 10027 steel and wood, 16-foot roadway, one 32-foot span, \$300; Hardin county, Calvin Boylan, county auditor.

**Iowa, Mason City**—Bids will be received until March 30, 2 p. m., for 29 bridges and culverts; check 5 per cent; address George E. Frost, county auditor.

**Iowa, Sioux City**—Bids received until April 27, 10 a. m. for one 6x6-inch culvert on the Dideen road, and one 4x4-inch on Rock River road; check 5 per cent; plans by city engineer, on file at office of city clerk, Paul J. Wells.

**Iowa, Waterloo**—Bids received until March 30, 10 a. m., for 14 bridges in Blackhawk county, also culverts, cement; check 5 per cent, for further particulars address county auditor, J. J. Rainbow.

**\*Minn., Blue Earth**—Bids received until April 12, 1 p. m., for state culverts and bridges, in Walnut Lake township; plans by engineer in charge; check 5 per cent; for further information address engineer or County Auditor Clayton L. Kennedy.

**Minn., Lake Park**—Bids received until March 29, 1 p. m., for repairing of the Olson bridge and the Jackson bridge across Buffalo river, Cuba township; plans at place of bidding, Kittle-Olson bridge; Christ O. Noben, chairman, town board.

**Minn., Mountain Lake**—Bids will be received until 2 p. m., April 3 for bridge between sections 17 and 20; plans with clerk of township; bids taken at First State Bank.

**\*Minn., Rush City**—Bids received until April 8, 1 p. m., for state bridge No. 1635, on state road No. 3, in town of Lent, Chisago county, to be 28-foot beam, 18-foot roadway, concrete floor, on reinforced concrete foundation, piling to be furnished by county; plans with state highway commissioner, St. Paul, Minn.; check 5 per cent; Archie F. L. Strongren, county auditor.

**\*Minn., Virginia**—Bids received until 8 p. m., April 6, for corrugated culvert pipe, for 12 culverts; check 5 per cent; Albert E. Bickford, city clerk.

**Minn., Windom**—Bids received until 1 p. m., April 15, for corrugated culverts in Cottonwood county; check \$50; S. A. Brown, county auditor; see official advertisement in the Improvement Bulletin this week.

**Minn., Winthrop**—Bids received until March 30, 10 p. m., for one steel and concrete bridge according to plans No. 1587, plans at office of Clerk Chas. W. Bauer; check 5 per cent.

**Mont., Columbus**—Bids received until April 12, 10 a. m., for bridges: one, 22-foot, one 30-foot, one 60-foot, one 55-foot and one 95-foot; check 5 per cent; plans with R. W. Barr, county surveyor; Lloyd B. Barley, clerk.

**Mont., Troy**—Bids received until April 5, for bridge across Lake Creek; plans at office of County Clerk Louis G. Klenck, at court house; check 5 per cent.

**\*N. D., Devils Lake**—Bids will be received until April 6, 2 p. m., for bridges, steel reinforced concrete, as follows: two 12-foot bridges, 14-foot piling, section 32; one 16-foot bridge 12-foot piling, section 5; one 16-foot bridge, 14-foot piling, section 30, in Ramsey county; all bridges to be 18-foot in clear; plans with county auditor, J. A. Kramer; check \$250.

**Wyo., Yellowstone Park**—Bids received until April 12, at office of U. S. engineers, for steel highway bridges to be erected in forest reserves, adjoining park; Amos A. Fries, major of engineers.

#### CONTRACTS AWARDED.

**Iowa, Marengo**—Contract awarded to M. O. Burnett for two groups of bridges.

**Minn., Minneapolis**—Contract awarded to Wm. O'Shea & Sons, for \$1,447, for contract No. 5, bridge No. 339.

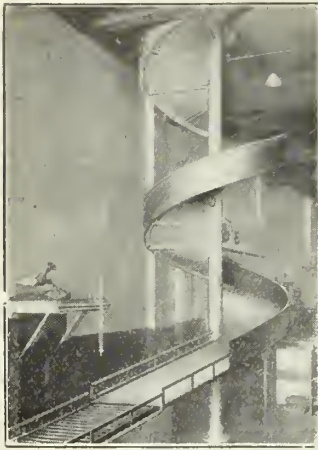
**Minn., Hill City**—Contract awarded to the Minneapolis Bridge Co., at \$75 for bridge over Hill River.

**\*Minn., Minneapolis**—Contract awarded to the Northland Pine Co., by K. E. Alexander, city purchasing agent, for furnishing city with 1,000,000 feet of frame work (lumber), on new 3d av. bridge; cost, \$21,180; steel contract awarded to the Illinois Steel Co. at \$8,000.

**Minn., Windom**—Contract awarded to M. A. Adams Co., Andrus block, Minneapolis, at \$888, for state bridge No. 1682, state road No. 2.

**Mont., Billings**—Contract awarded to the Security Bridge Co., of Billings, for construction of the Pompey Pillar and Duck Creek bridges at \$43,920 and \$31,950.





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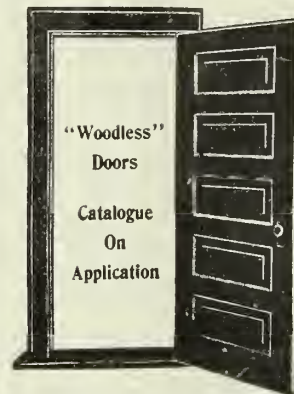
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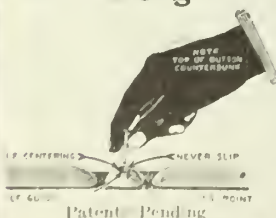
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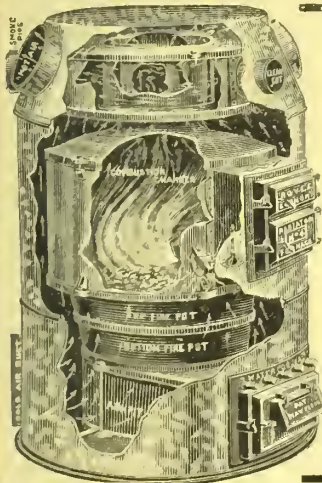
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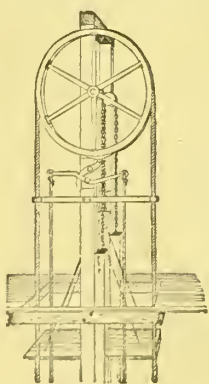
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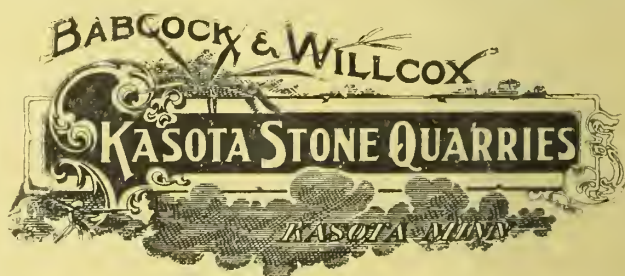
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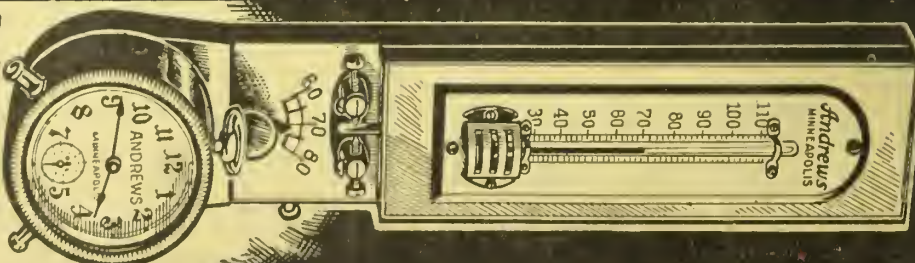
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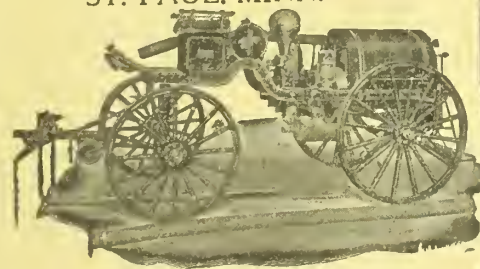
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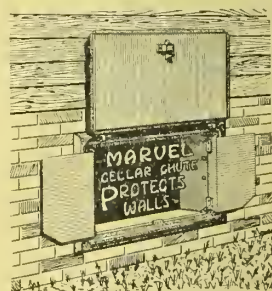
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# The Improvement Bulletin

A Weekly Journal of Construction, Engineering and Architectural News Founded by Harold C. Chapin.

Volume XLVIII.

Minneapolis, Minn., April 3, 1915.

Number 18

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Krieger-Jamar Co., Duluth, Minn.  
W. S. Nott Company, Minneapolis, Minn.

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Bank and Store Fixtures.  
H. W. Johns-Manville Co., Minneapolis, Minn.

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Associate Mfrs. Supply Co., Mpls., Minn.  
Crane & Ordway Co., St. Paul, Minn.  
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Hydraulic Press Brk. Co., Minneapolis, Minn.  
Johnson, Jackson & Corning Co., Minneapolis and St. Paul, Minn.  
Lehigh Sewer Pipe & Tile Co., Fort Dodge, Iowa

Mason City Brick & Tile Co., Mason City, Ia.  
Rufus P. Morton, Princeton, Minn.  
National Fireproofing Co., Minneapolis, Minn., and Chicago, Ill.  
Northwestern Fireproofing Co., Mpls., Minn.  
Northland Pine Co., Minneapolis, Minn.  
A. C. Ochs Brick & Tile Co., Springfield, Minn.

Red River Valley Brick Corporation, Grand Forks, N. D.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Sioux City Brick & Tile Co., Sioux City, Ia.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.  
Twin City Brick Co., St. Paul-Mpls., Minn.

## BRIDGES.

American Bridge Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Russell Grader Co., Minneapolis, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

H. B. Jones, Security Bank, Minneapolis  
G. E. Ingerson & Co., St. Paul, Minn.

## BUILDING MATERIAL.

Baxter Sash & Door Co., Duluth, Minn.  
Blesanz Stone Co., Winona, Minn.  
Carr-Cullen Co., Minneapolis, Minn.  
Dunlop-Moore Co., Duluth, Minn.  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
Northland Pine Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graff Lumber Co., Duluth, Minn.  
Shakopee Cement Lime Co., St. Paul, Minn.  
Northland Pine Co., Minneapolis, Minn.  
N. W. Building Material Exhibit, Minneapolis, Minn.

The Northwestern Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## BUILDERS' SPECIALTIES.

Dunlop, Moore Co., Duluth, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Northland Pine Co., Minneapolis, Minn.  
Paine & Nixon Co., Duluth, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
G. A. Turner, Minneapolis, Minn.

## CALKING PASTE.

Weatherproof Calking Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.

## CEMENT.

Atlas Portland Cement Co., Minneapolis, Minn.  
Carney's Cement Works, Mankato, Minn.  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
Landers-Morrison-Christensen Co., Minneapolis, Minn.  
N. W. Lime Co., Mpls. and St. Paul, Minn.  
N. W. States Portland Cement Co., Mason City, Iowa  
Shakopee Cement Lime Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Speaks Lime & Cement Co., Superior, Wis.  
Northland Pine Co., Minneapolis, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

Universal Portland Cement Co., Minneapolis

## CELLS, STEEL.

Builders Iron Works, St. Paul, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
St. Paul Foundry Co., St. Paul, Minn.

## CEILING, STEEL.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Canion Steel Ceiling Co., Minneapolis, Minn.  
Haakinson & Beatty Co., Sioux City, Iowa  
H. W. Johns-Manville Co., Minneapolis, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

## CEMENT FILLER.

Hydraulic Press Brick Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

## COAL CHUTES.

American Bridge Co., Minneapolis, Minn.  
Avery Steel & Iron Co., Minneapolis, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Enterprise Iron Works, Albert Lea, Minn.  
Fowler & Pay, Mankato, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Interstate Mfg. Co., Oskaloosa, Ia.  
Majestic Furnace & Fdy. Co., Mpls., Minn.  
Northern Insulating Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Foundry Co., St. Paul, Minn.

Chas. A. Berger, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company, Minneapolis, Minn.

## CONCRETE CONSTRUCTION.

Avery Steel & Iron Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
C. A. P. Turner, Minneapolis, Minn.

CONTRACTORS' LEVELS AND SUPPLIES.  
David White Co., Milwaukee, Wis.

## CONCRETE MACHINERY.

Atlas Engineering Co., Milwaukee, Wis.  
Badger Concrete Mixer Co., Milwaukee, Wis.  
Brasstad Concrete Mach. Co., Canton, S. D.  
Cement Tile Machinery Co., Waterloo, Ia.  
Chain Belt Co., Milwaukee, Wis.  
Contractors Machinery Co., Keokuk, Iowa  
Nels Erickson, Minneapolis, Minn.  
Jaeger Machine Co., Columbus, O.  
Koehring Machine Co., Minneapolis, Minn., and Milwaukee, Wis.  
The Lansing Co., Minneapolis, Minn.  
Milwaukee Concrete Mixer Co., Milwaukee, Wis.  
Municipal Engineering & Contracting Co., Chicago, Ill.

N. W. Concrete Steel Co., Minneapolis, Minn.  
N. W. Steel & Iron Works, Eau Claire, Wis.  
Raymer Hardware Co., St. Paul, Minn.  
Russell Grader Co., Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Standard Scale & Supply Co., Chicago, Ill.  
The T. L. Smith Co., Milwaukee, Wis.  
Chas. H. Stehling Co., Milwaukee, Wis.  
Waterloo C. Mach. Corp., Waterloo, Ia.  
W. H. Hale & Co., Minneapolis, Minn.  
Ellis Woolman, Minneapolis, Minn.  
E. Wege Concrete Machinery Co., La Crosse, Wis.

CONCRETE REINFORCING BARS.  
Avery Steel & Iron Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
General Western Material Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Northwestern Steel & Iron Works, Eau Claire, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

## CORNICES.

Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Berger Mfg. Co., Minneapolis, Minn.  
Griffin & Boehme, St. Paul, Minn.  
F. V. Haverland, Minneapolis, Minn.  
Milwaukee Corrugating Co., Milwaukee, Wis.  
Minnesota Roofing & Cornice Works, St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornament Co., St. Paul, Minn.  
H. C. Thomas & Bro., La Crosse, Wis.

CORRUGATED IRON, ETC.  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.

Avery Steel & Iron Co., Minneapolis, Minn.  
Berger Mfg. Co., Minneapolis, Minn.  
Corrugated Bar Co., St. Paul, Minn.  
American Bridge Co., Minneapolis, Minn.

CONCRETE REINFORCING.  
Berger Mfg. Co., Minneapolis, Minn.  
Inland Steel Co., St. Paul, Minn.  
N. W. Concrete Steel Co., Minneapolis, Minn.  
Russell Grader Co., Minneapolis, Minn.

CONTRACTORS' SUPPLIES AND MACHINERY.  
Decker Hardware Co., St. Paul, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Ellis Woolman, Minneapolis, Minn.

## CULVERTS.

Berger Mfg. Co., Minneapolis, Minn.  
Blesanz Stone Co., Winona, Minn.  
Galion Iron Works, Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Iowa  
Minneapolis Steel & Mach. Co., Mpls., Minn.  
Russell Grader Co., Minneapolis, Minn.

CRUSHED STONE.  
Fowler & Pay, Mankato, Minn.  
General Western Material Co., Waterloo, Ia.  
Kettle River Co., Minneapolis, Minn.  
Klauser Mfg. Co., Dubuque, Ia.  
Mantorville Stone Co., Mantorville, Minn.  
New Ulm Stone Co., New Ulm, Minn.  
Standard Salt & Cement Co., Duluth, Minn.

Widell Co., Mankato, Minn.

Minneapolis, Minn.

DEADENING MATERIAL.  
Cement Tile Machinery Co., Waterloo, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
Union Fibre Co., Winona, Minn.

DECORATIONS.  
Ludwig J. Oyen, La Crosse, Wis.

DITCHING MACHINES.  
Bay City Dredge Works, Bay City, Mich.  
United Iron Works, Springfield, Mo.

DREDGES.  
Bay City Dredge Works, Bay City, Mich.

ELECTRICAL ENGINEERING.  
Beck Electrical Construction Company, Minneapolis, Minn.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

ELECTRIC MOTORS AND SUPPLIES.  
Beck Electrical Construction Company, Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
Minneapolis Electric Equipment Co., Minneapolis, Minn.

STERLING ELECTRIC CO., MINNEAPOLIS, MINN.

ELEVATORS AND ENCLOSURES.  
Kimbball Bros Co., Council Bluffs, Iowa  
Gust Lagerquist, Minneapolis, Minn.  
Lee & Hoff Mfg. Co., St. Paul, Minn.

ENGINEERS.  
Oscar Claussen Engineering Co., St. Paul, Minn.  
Walter H. Flood, Chicago, Ill.  
Lewis A. Larsen, St. Paul, Minn.  
Charles L. Pillsbury, Minneapolis, Minn.  
L. P. Wolf, St. Paul, Minn.  
M. B. Stone, Minneapolis, Minn.  
Cowles-Vandanaker Co., Minneapolis, Minn.  
Power Engineering Co., Minneapolis, Minn.

EXCAVATORS.  
Bay City Dredge Works, Bay City, Mich.

FIRE ESCAPES.  
Avery Steel & Iron Co., Minneapolis, Minn.  
Builders Iron Works, St. Paul, Minn.  
Crown Iron Works Co., Minneapolis, Minn.  
Des Moines Structural Steel Works, Des Moines, Ia.  
Haakinson & Beatty Co., Sioux City, Iowa  
Milwaukee Corrugating Co., Milwaukee, Wis.  
St. Paul Foundry Co., St. Paul, Minn.

FIRE HYDRANTS.  
Waterous Engine Works Co., St. Paul, Minn.

FIREPROOF DOORS.  
Badger Steel Roofing & Corrugating Co., La Crosse, Wis.  
Thorp Fireproof Door Co., Minneapolis, Minn.

FLUE LINING.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn.  
Northland Pine Co., Minneapolis, Minn.  
Northwestern Lime Co., St. Paul, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Standard Salt & Cement Co., Duluth, Minn.  
St. Paul Lime & Cement Co., St. Paul, Minn.

FIRE PROTECTION APPARATUS.  
Waterous Engine Works Co., St. Paul, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.

FIREPROOFING DOORS AND SHUTTERS.  
Haakinson & Beatty Co., Sioux City, Iowa  
Selden Roofing & Manufacturing Co., Minneapolis, Minn.

FLOORING.  
Hydraulic Press Brick Co., Minneapolis, Minn.  
H. W. Johns-Manville Co., Minneapolis, Minn., and Milwaukee, Wis.  
K. F. Lott & Co., Mpls. and St. Paul, Minn.  
Minnesota Fama Stonewood Co., Minneapolis, Minn.  
W. S. Nott Company, Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co., St. Paul, Minn.  
Scott-Graff Lumber Co., Duluth, Minn.  
Northland Pine Co., Minneapolis, Minn.  
J. Stephenson Co., Wells, Mich.  
Wisconsin Land & Lumber Co., Hermansville, Mich.

FLOOR SURFACING MACHINES.  
M. L. Schlueter, Chicago, Ill.

FURNACES.  
Boyce Furnace Works, Waterloo, Iowa  
Gibson Mfg. Co., Waterloo, Iowa

FURRING.  
Corrugated Bar Co., St. Paul, Minn.

GAS AND ELECTRICAL FIXTURES.  
Jerdée & Hendrickson, Minneapolis, Minn.  
Mpls. Electric Equipment Co., Mpls., Minn.  
Sterling Electric Co., Minneapolis, Minn.

GLASS.  
American Luxfer Prism Co., Chicago, Ill.  
Minnesota Art Glass Co., St. Paul, Minn.  
Pittsburgh Plate Glass Co., Minneapolis and St. Paul, Minn.

GRAVITY CARRIER.  
Minnesota Manufacturers' Association, North St. Paul, Minn.

GREENHOUSES AND GLASS STRUCTURES.  
W. H. Lutton Co., Minneapolis, Minn.

HARDWARE TRIMMINGS.  
Decker Hardware Co., St. Paul, Minn.  
Gardner Hardware Co., Minneapolis, Minn.  
W. K. Morison & Co., Minneapolis, Minn.  
Waterous Engine Co., St. Paul, Minn.  
Warner Hardware Co., Minneapolis, Minn.

HEAT REGULATORS.  
Andrews Heating Co., Minneapolis, Minn.

HEATING AND VENTILATING.  
Andrews Heating Co., Minneapolis, Minn.  
Hasey Heating Co., Minneapolis, Minn.  
H. Kelly & Co., Minneapolis, Minn.  
National Mfg. & Supply Co., Mpls., Minn.



# The Buyers Directory of Building Materials, Machinery and Supplies

Giving the names of reliable firms in every line. When ordering goods from firms listed here, it is requested that you mention The Improvement Bulletin

## HOISTS.

H. W. Johns-Manville Co. .... Minneapolis  
Koenig Machine Co. .... Minneapolis, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.

## IRON

Gardner Hardware Co. .... Minneapolis, Minn.  
W. B. Morrison & Co. .... Minneapolis, Minn.  
W. S. Nott Company. .... Minneapolis, Minn.  
Waterous Engine Works Co. .... St. Paul, Minn.

## INSULATING MATERIAL.

Haakinson & Beatty Co. .... Sioux City, Iowa  
Hydraulic Press Brick Co. .... Minneapolis, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
Northern Insulating Co. .... St. Paul, Minn.  
W. S. Nott Company. .... Minneapolis, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.  
Union Fibre Co. .... Winona, Minn.

## INSURANCE.

Fred L. Gray Co. .... Minneapolis, Minn.  
Houd & Matschke. .... Minneapolis, Minn.  
W. B. Joyce Co. .... Mpls. and St. Paul, Minn.

## IRON AND STEEL WORK.

American Bridge Co. .... Minneapolis, Minn.  
Avery Steel & Iron Co. .... Minneapolis, Minn.  
Builders Iron Works. .... St. Paul, Minn.  
Crown Iron Works. .... Minneapolis, Minn.  
Des Moines Bridge & Iron Co. .... Des Moines, Iowa  
Des Moines Structural Steel Works. .... Des Moines, Ia.  
Haakinson & Beatty Co. .... Sioux City, Iowa  
Inland Steel Co. .... St. Paul, Minn.  
Minneapolis Steel & Mach. Co. .... Mpls., Minn.  
N. W. Concrete Steel Co. .... Minneapolis, Minn.  
St. Paul Foundry Co. .... St. Paul, Minn.  
J. J. Voggenthaler Co. .... Dubuque, Ia.  
Youngstown Iron & Steel Co. .... Youngstown, Ohio, Minn.

## JOIST HANGER.

American Bridge Co. .... Minneapolis, Minn.  
Avery Steel & Iron Co. .... Minneapolis, Minn.  
Crown Iron Works. .... Minneapolis, Minn.  
Des Moines Bridge & Iron Co. .... Des Moines, Ia.  
Haakinson & Beatty Co. .... Sioux City, Iowa  
Minneapolis Steel & Mach. Co. .... Mpls., Minn.  
Northwestern Concrete Steel Co. .... Minneapolis, Minn.  
St. Paul Foundry Co. .... St. Paul, Minn.

## LABORERS.

Diamond Labor Supply Co. .... Chicago, Ill.

## LIME.

General Western Material Co. .... Waterloo, Ia.  
Fowler & Pay. .... Mankato, Minn.  
Hydraulic Press Brick Co. .... Minneapolis, Minn.  
Sanders-Morrison-Christenson Co. .... Minneapolis, Minn.  
Gust Lillyblad. .... Red Wing, Minn.  
Shakopee Cement Lime Manufacturing Co. .... St. Paul, Minn.  
Speakes Lime & Cement Co. .... Superior, Wis.  
Northland Pine Co. .... Minneapolis, Minn.  
St. Paul Lime & Cement Co. .... St. Paul, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.  
The Northwestern Lime Co. .... St. Paul, Minn.

## MANTELS-GRATES.

Drake Marble & Tile Co. .... Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co. .... Duluth, Minn.  
Haakinson & Beatty Co. .... Sioux City, Iowa  
N. W. Marble & Tile Co. .... Minneapolis, Minn.  
Peerless Marble & Tile Co. .... Minneapolis, Minn.  
Twin City Tile & Marble Co. .... Mpls., Minn.

## MARBLE, TILING, MOSAIC.

Drake Marble & Tile Co. .... Minneapolis and St. Paul, Minn.  
Dunlop-Moore Co. .... Duluth, Minn.  
Haakinson & Beatty Co. .... Sioux City, Iowa  
N. W. Marble & Tile Co. .... Minneapolis, Minn.  
Peerless Marble & Tile Co. .... Minneapolis, Minn.  
Twin City Tile & Marble Co. .... Mpls., Minn.

## METAL SHINGLES.

Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.  
Berger Mfg. Co. .... Minneapolis, Minn.  
Haakinson & Beatty Co. .... Sioux City, Iowa  
W. S. Nott Company. .... Minneapolis, Minn.

## METAL AND WIRE LATH.

Avery Steel & Iron Co. .... Minneapolis, Minn.  
Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.  
Berger Mfg. Co. .... Minneapolis, Minn.  
Corrugated Bar Co. .... St. Paul, Minn.  
Des Moines Bridge & Iron Co. .... Des Moines, Iowa  
General Western Material Co. .... Waterloo, Ia.  
Hydraulic Press Brick Co. .... Minneapolis, Minn.  
Johnson, Jackson & Corning Co. .... Minneapolis and St. Paul, Minn.  
Northwestern Lime Co. .... St. Paul, Minn.  
Northland Pine Co. .... Minneapolis, Minn.  
St. Paul Lime & Cement Co. .... St. Paul, Minn.

## MILLWORK.

Baxter Sash & Door Co. .... Duluth, Minn.  
Osgood-Blodgett Mfg. Co. .... St. Paul, Minn.  
Scott-Graff Lumber Co. .... Duluth, Minn.

## MORTAR MIXERS.

Mortar Mixer Corporation. .... Iowa City, Iowa  
Standard Salt & Cement Co. .... Duluth, Minn.

## OFFICE FURNITURE.

Farnham Printing & Sta. Co. .... Mpls., Minn.

## ORNAMENTAL IRON AND WIRE.

American Bridge Co. .... Minneapolis, Minn.  
Avery Steel & Iron Co. .... Minneapolis, Minn.  
Builders Iron Works. .... St. Paul, Minn.  
Crown Iron Works Co. .... Minneapolis, Minn.  
Des Moines Bridge & Iron Co. .... Des Moines, Iowa  
Haakinson & Beatty Co. .... Sioux City, Iowa  
Midway Ornamental Iron Works. .... St. Paul, Minn.  
Minneapolis Steel & Mach. Co. .... Mpls., Minn.  
St. Paul Foundry Co. .... St. Paul, Minn.

## PAINTS, FILLERS, ETC.

Gardner Hardware Co. .... Minneapolis, Minn.

Hydraulic Press Brick Co. .... Minneapolis, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn.  
Jackson Mineral Paint Works. .... Milwaukee, Wis.

## PACKINGS AND ROSE.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company. .... Minneapolis, Minn.

## PAVEMENT.

Barrett Mfg. Co. .... New York, N. Y.

## PIPE-CAST IRON.

American Cast Iron Pipe Co. .... Minneapolis, Minn.

## PIPE AND BOILER COVERING.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company. .... Minneapolis, Minn.

## PLASTER-WALL.

Fowler & Pay. .... Mankato, Minn.  
General Western Material Co. .... Waterloo, Ia.  
Hydraulic Press Brick Co. .... Minneapolis, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
Plymouth Gypsum Co. .... Fort Dodge, Ia.  
Shakopee Cement Lime Co. .... St. Paul, Minn.  
Northland Pine Co. .... Minneapolis, Minn.  
St. Paul Lime & Cement Co. .... St. Paul, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.

## PLASTERING-ORNAMENTAL.

Brioschi-Minuti Co. .... St. Paul, Minn.

## PLASTERERS SPECIALTIES.

Monarch Co. .... St. Paul, Minn.

## PLASTIC ORNAMENTS.

Monarch Co. .... St. Paul, Minn.

## PRINTING.

Farnham Printing Co. .... Minneapolis, Minn.

## PRISMS.

American Luxfer Prism Co. .... Chicago, Ill.

## PLUMBING AND HEATING JOBBERS.

National Mfg. & Supply Co. .... Mpls., Minn.

## REVOLVING DOORS.

Van Kannel Revolving Door Co. .... St. Paul, Minn.

## ROAD MACHINERY.

Galion Iron Works. .... Minneapolis, Minn.

## RUOFING GRAVEL AND ASPHALT.

Griffin & Boehme. .... St. Paul, Minn.

## ROOFING-METAL.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
Krieger-Jamar Co. .... Duluth, Minn.  
Minnesota Roofing & Cornice Works. .... St. Paul, Minn.  
Northwestern Lime Co. .... St. Paul, Minn.  
Scribner-Libby Co. .... St. Paul, Minn.  
W. S. Nott Company. .... Minneapolis, Minn.  
Russell Grader Co. .... Minneapolis, Minn.  
Selden Roofing & Manufacturing Co. .... Minneapolis, Minn.

## ROOFING-METAL.

Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.  
Berger Mfg. Co. .... Minneapolis, Minn.  
Duluth Corrugating & Roofing Co. .... Duluth, Minn.  
Gardner Hardware Co. .... Minneapolis, Minn.  
La Crosse Steel Roofing & Corrugating Co. .... Minneapolis, Minn.  
W. S. Nott Company. .... Minneapolis, Minn.  
St. Paul Roofing, Cornice & Ornamental Co. .... St. Paul, Minn.  
N. W. Roofing, Cornice & Stamping Works. .... Minneapolis, Minn.  
H. C. Thomas & Bro. .... La Crosse, Wis.

## ROOFING MATERIAL.

Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.  
Barrett Mfg. Co. .... New York, N. Y.  
Biesanz Stone Co. .... Winona, Minn.  
Corrugated Bar Co. .... St. Paul, Minn.  
General Western Material Co. .... Waterloo, Ia.  
Hydraulic Press Brick Co. .... Minneapolis, Minn.  
John Leslie Paper Co. .... Minneapolis, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.  
W. S. Nott Company. .... Minneapolis, Minn.  
Northland Pine Co. .... Minneapolis, Minn.  
Standard Salt & Cement Co. .... Duluth, Minn.

## ROOFING AND SIDING-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.  
Berger Mfg. Co. .... Minneapolis, Minn.  
Gardner Hardware Co. .... Minneapolis, Minn.  
Inland Steel Co. .... St. Paul, Minn.  
H. W. Johns-Manville Co. .... Minneapolis, Minn.

## SAND AND GRAVEL.

Humboldt Sand & Gravel Co. .... Humboldt, Ia.

## SHINGLES-RUBBER.

W. S. Nott Company. .... Minneapolis, Minn.

## RUST-RESISTING IRON SHEETS.

Berger Mfg. Co. .... Minneapolis, Minn.

## SAND AND GRAVEL.

Biesanz Stone Co. .... Winona, Minn.

## SASH AND DOORS.

Baxter Sash & Door Co. .... Duluth, Minn.  
Carr-Cullen Co. .... Minneapolis, Minn.  
Osgood & Blodgett Mfg. Co. .... St. Paul, Minn.  
Scott-Graff Lumber Co. .... Duluth, Minn.  
Northland Pine Co. .... Minneapolis, Minn.

## SEWER PIPE AND DRAIN TILE.

Haakinson & Beatty Co. .... Sioux City, Iowa

## SEWER PIPE AND TILE.

Lehigh Sewer Pipe & Tile Co. .... Des Moines, Ia.

## SEWER PIPE AND TILE.

Northwestern Lime Co. .... Fort Dodge, Iowa

## SEWER PIPE AND TILE.

Plymouth Clay Products Co. .... Red Wing, Minn.

Standard Salt & Cement Co. .... Duluth, Minn.

St. Paul Foundry Co. .... St. Paul, Minn.

SHEETS-IRON AND STEEL.

Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.

Berger Mfg. Co. .... Minneapolis, Minn.

Gardner Hardware Co. .... Minneapolis, Minn.

Haakinson & Beatty Co. .... Sioux City, Iowa

Inland Steel Co. .... St. Paul, Minn.

Russell Grader Co. .... Minneapolis, Minn.

SIDEWALK LIGHTS.

American Luxfer Prism Co. .... Chicago, Ill.

Avery Steel & Iron Co. .... Minneapolis, Minn.

Crown Iron Works Co. .... Minneapolis, Minn.

Berger Mfg. Co. .... Minneapolis, Minn.

General Western Material Co. .... Waterloo, Ia.

Haakinson & Beatty Co. .... Sioux City, Iowa

K. F. Lott & Co. .... St. Paul, Minn.

SLATE BLACKBOARDS.

Haakinson & Beatty Co. .... Sioux City, Iowa

Peerless Marble & Tile Co. .... Minneapolis, Minn.

Twin City Tile & Marble Co. .... Mpls., Minn.

SKYLIGHTS.

Badger Steel Roofing & Corrugating Co. .... La Crosse, Wis.

Haakinson & Beatty Co. .... Sioux City, Iowa

Krieger-Jamar Co. .... Duluth, Minn.

St. Paul Roofing, Cornice & Ornamental Co. .... St. Paul, Minn.

H. C. Thomas & Bro. .... La Crosse, Wis.

STACK LINING.

H. W. Johns-Manville Co. .... Minneapolis, Minn.

W. S. Nott Company. .... Minneapolis, Minn.

STEEL-BARS.

American Bridge Co. .... Minneapolis, Minn.

Avery Steel & Iron Co. .... Minneapolis, Minn.

Haakinson & Beatty Co. .... Sioux City, Iowa

Inland Steel Co. .... St. Paul, Minn.

Russell Grader Co. .... Minneapolis, Minn.

Twin City Tile & Marble Co. .... Mpls., Minn.

STONE.

Babcock & Wilcox. .... Kasota, Minn.

Biesanz Stone Co. .... Winona, Minn.

Breen Stone Co. .... St. Paul, Minn.

Law, Bainger Co. .... Cedar Rapids, Ia.

Fowler & Pay. .... Mankato, Minn.

Kettle River Co. .... Minneapolis, Minn.

Duluth Cut Stone Co. .... Duluth, Minn.

Mantorville Stone Co. .... Mantorville, Minn.

New Uhm Stone Co. .... New Uhm, Minn.

Pioneer Granite Co. .... St. Cloud, Minn.

Sauk Rapids Granite Co. .... Sauk Rapids, Minn.

Wm. Penn Stone Co. .... Minneapolis, Minn.

The Widell Co. .... Mankato, Minn.

STRUCTURAL SECTIONS AND SHEETS.

American Bridge Co. .... Minneapolis, Minn.

Avery Steel & Iron Co. .... Minneapolis, Minn.

Des Moines Bridge & Iron Co. .... Des Moines, Iowa

Inland Steel Co. .... St. Paul, Minn.

Haakinson & Beatty Co. .... Sioux City, Iowa

TANKS-STEEL.

American Bridge Co. .... Minneapolis, Minn.

Avery Steel & Iron Co. .... Minneapolis, Minn.

Des Moines Bridge & Iron Co. .... Des Moines, Iowa

Des Moines, Iowa

Minneapolis Steel & Mach. Co. .... Mpls., Minn.

St. Paul Foundry Co. .... St. Paul, Minn.

TERRA COTTA.

Belt Line Brick Co. .... Mpls. and St. Paul, Minn.

General Western Material Co. .... Waterloo, Ia.

Haakinson & Beatty Co. .... Sioux City, Iowa

Hydraulic Press Brick Co. .... Minneapolis, Minn.

Johnson, Jackson & Corning Co. .... Minneapolis and St. Paul, Minn.

K. F. Lott & Co. .... Minneapolis and St. Paul, Minn.

THE MONARCH CO. .... St. Paul, Minn.

TILE-CLAY-PARTITION AND FLOOR.

Hydraulic Press Brick Co. .... Minneapolis, Minn.

Standard Salt & Cement Co. .... Duluth, Minn.

VARNISHES.

Gardner Hardware Co. .... Minneapolis, Minn.

North Star Varnish Co. .... Minneapolis, Minn.

Twin City Varnish Co. .... St. Paul, Minn.

VALVES.

Crane Co. .... Minneapolis, Minn.

Crane & Ordway. .... St. Paul, Minn.

Mechanical Specialty Co. .... St. Paul, Minn.

VENTILATING SYSTEMS.

Arex Company. .... Chicago, Ill.

Hackney Ventilating Co. .... Minneapolis, Minn.

J. C. Kerchen. .... Chicago, Ill.

G. A. Turner. .... Minneapolis, Minn.

WALL BEDS.

Northwestern Bedding Co. .... St. Paul, Minn.

WATERPROOFING.

General Western Material Co. .... Waterloo, Ia.

Gardner Hardware Co. .... Minneapolis, Minn.

Hydraulic Press Brick Co. .... Minneapolis, Minn.

H. W. Johns-Manville Co. .... Minneapolis, Minn., and Milwaukee, Wis.

K. F. Lott & Co. .... St. Paul, Minn.

Northland Pine Co. .... Minneapolis, Minn.

W. S. Nott Company. .... Minneapolis, Minn.

Standard Salt & Cement Co. .... Duluth, Minn.

WATER TOWERS, STEEL.

American Bridge Co. .... Minneapolis, Minn.

Des Moines Bridge & Iron Co. .... Des Moines, Iowa

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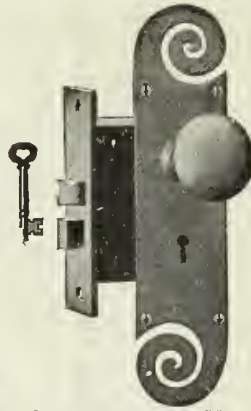
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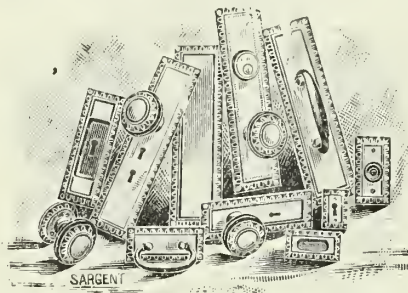
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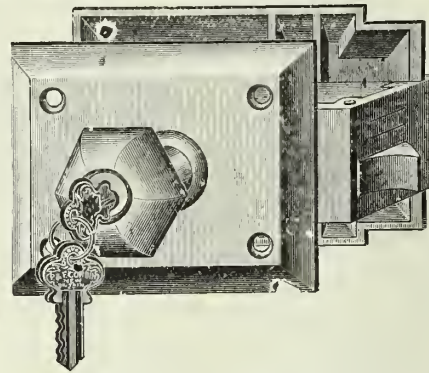
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# The IMPROVEMENT BULLETIN

OFFICIAL ORGAN OF THE MINNESOTA STATE ASSOCIATION OF BUILDERS EXCHANGES

VOLUME XLVIII.

SATURDAY, APRIL 3, 1915

NUMBER 18



## EDITORIAL



O. L. COLBURN, Editor

### THE MINNESOTA LEGISLATURE.

One of the sufferers by the economical acts of the Minnesota legislature so far is the Board of Control whose request for about \$1,300,000 for new buildings was cut by the senate committee to \$300,000. This is regarded as pretty extensive trimming, but space does not permit further comment. The only new buildings of consequence which are provided for are one for the criminal insane at St. Peter, \$50,000; for completing a cell wing at the reformatory, \$50,000, and for two new cottages at the Sauk Center home school for girls, \$30,000.

The state highway commission suffers a reduction from \$150,000 to \$100,000 a year. The committee refused \$60,000 asked for the fund for building national guard armories, which was granted two years ago, but that fund will receive \$30,000 a year from a special tax levied by another law.

Senator R. T. Buckler of Crookston has re-introduced his bill which would abolish the State Highway Commission. The Highway Home Rule Association backs the senator in this bill. The first bill he introduced to this effect was side-tracked by the senate committee on roads and bridges. This second bill went to the same committee and the author assumes that it likely will suffer a like fate.

S. F. 365, Senator J. D. Sullivan's measure providing for the exclusive use of Minnesota-produced stone and material in public buildings constructed in whole or in part at state expense, was advanced to the calendar in the house under a suspension of the rules. The bill passed the senate after a fight about two weeks ago.

### OVER \$2,000,000 FOR TWO PROJECTS.

Congress appropriated \$1,100,000 for the Sun River irrigation project, and the same for the Milk River. For the lower Yellowstone, \$70,000.

The appropriation for Glacier National Park is \$75,000. This includes the construction of roads, trails, bridges and telephone lines and their repairs; repairs to the road from St. Mary's through the Blackfeet reservation east of lower St. Mary's lake to the boundary line between the park and the reservation.

### MILWAUKEE CODE PUBLISHED.

Milwaukee's new building code is about ready for distribution.

The code is the result of the labor of the building code commission extending over a period of five years and cost the city \$2,400 as compared with the code of Cleveland, which cost \$40,000.

The code covers every possible phase of building construction and maintenance. It establishes the rules for excavations, the building of the foundations and the building proper. It regulates the height of buildings, the loads which can be carried by different materials, the construction of elevators in buildings, and all other equipment necessary for modern office, factory and residence buildings.

In order to pay for the printing, a charge of 75 cents will be made by the city for each copy.

### NO STATE ARCHITECT IN OREGON.

The Oregon State Board of Control has abolished the office of state architect, and will hereafter, when work is required to be done, employ W. C. Knighton, who has held the state office for the past four years. During that period he has supervised the construction of ninety buildings, having an aggregate value of \$1,395,000. The expenses of the department, have amounted to \$42,000, or a little more than 3 per cent of the money expended.

### NOTES OF THE WEEK.

Repeal of the ordinance requiring the approval of one alderman of the ward before the building inspector can issue a permit for the erection of a flat building in any section of the city, was recommended recently by the Special Council Committee named to revise the city building code.

Public ownership of street railways has not been profitable in Regina, Sask. A report, based on the official figures, says that "the street railway loss reaches the high figure of \$108,000." The figures are in the annual report of the city auditor.

The sale of road building machinery and equipment will be regulated in Iowa if a new senate bill by Senator L. E. Crist, of Clarke county, is enacted into law. Under the Crist bill every manufacturer of or dealer in such machinery or equipment is required to obtain a permit from the highway commission to sell road building products in the state. The manufacturer or dealer is required to file with the commission "a full and complete description of such articles" as he may desire to sell in the state and "shall state the price at which such article shall be sold." The applicant must say that his charge is reasonable and the same as made in any other state. A license of \$10 and a bond of \$5,000 is provided. The license provides that in case the license shall sell such equipment, machinery or material for a less price than that stated in his application, such price shall be held to be the price in excess of which he cannot sell for the remainder of the year, and the licensee shall be required to repay to the township or counties to which sales have been made "a sum equal to the difference between the price stated in said application and the lower price made by him." The commission is authorized to sue on the bond posted for the recovery. It also is made the duty of the commission to furnish counties and townships full information about the companies. County auditors would be required to make monthly reports of purchases to the commission.

### NEW RAILROAD TO BE BUILT IN ARIZONA.

One of the recently adopted plans in connection with the development of the New Cornelia mine of the Calumet & Arizona Mining Co., has been made public.

T. M. Schumacher, chairman of the board of directors of the Rock Island system, and J. E. Gorman, first vice president and a director of the road, arrived in Bisbee, Ariz., to take part in conferences on matters of importance to the railway and mining interests of Arizona. Mr. Schumacher announced that it had been decided to form what will be known as the Tuscon & Gila Bend Railway Co., which will be incorporated within a week or ten days.

It is the intention of the company to build a railroad from Gila Bend to Ajo where is located the New Cornelia property, controlled by the Calumet and Arizona interests. How much more building will be done by the proposed railroad company cannot be stated at this time. It is regarded as highly probable, however, that their field of operations will be eventually extended.

The company will be owned equally by the El Paso & Southwestern and the Calumet & Arizona interests. Walter Douglas, managing director of the Phelps-Dodge interests in the West, and Mr. Schumacher have been in conference with Dr. Ricketts and John Greenway in connection with matters relating to the building of the Gila Bend-Ajo line. Mr. Douglas, Mr. Schumacher and Mr. Gorman went to San Francisco to confer with President Sproule of the Southern Pacific on the question of connecting with that road at Gila Bend.

Present intentions are to begin construction work without delay and it is expected that the road will be completed and in operation within a year. It will be about 42 miles in length and furnish traffic facilities to the mining properties in the Ajo district.



# Birds-Eye View of Wisconsin University

Harold F. Chapin, of The Improvement Bulletin Staff, Describes a Novel Exhibition at Madison, Wis.

This is the year of expositions. Perhaps in keeping our eyes upon the great fairs in the west we have overlooked a very interesting exhibition that has taken place much nearer home. On March 25, 26 and 27, the University of Wisconsin threw the doors of its gymnasium open to "A Bird's-eye View of the University." Eighty-five departments in that institution displayed their work to the people of the state. It is here possible and profitable only to account briefly for the interesting and instructing exhibits of the School of Engineering.

On entering the building every visitor was handed a blue print showing the floor plan of the various exhibits. In the booth occupied by the Department of Drawing a blue-printing machine was kept constantly at work turning out these valuable souvenirs. In the same booth the Department of Railway Engineering operated a miniature railroad with complete block-signal system which worked in perfect order. The department also showed defective crossings in all their variations and in some detail the work of the state Railroad Commission in its treatment of such dangers.

The Department of Mechanics featured testing machines of various types. The machines used for this purpose were those used so largely by the university in testing brick, tile, wood and steel beams and many other commercial articles sent in from all parts of the state. Among the more interesting machines shown were a 50,000 pound Universal Testing Machine, the Permeability Apparatus, Repeated Stress Tester,

Foundry Tester, Bunnell Hardness Tester, and a complete cement testing equipment, including a mold for making briquettes, and a Deval Abrasion Machine.

The Hydraulic Department exhibited a working model of a power plant which caught the generating power from a little stream, turned the dynamo and furnished light for miniature lamps. The work on certain theses in connection with experiments with Pitot's Tube and in the determination of the loss in overhead gearing in a turbine and the action of submerged weirs was demonstrated.

The Steam and Gas Department showed a small model of a Corliss Engine which generated the light in its booth. For the automobile enthusiast the engines of the Ford and Case cars were exhibited as well as several makes of carburetors.

The mining engineers divided their work in two sections, Mining and Metallurgy. The former kept a pneumatic drill at work at a great granite work continuously. An accurate working model of a placer mine was of particular attraction to all visitors. The metallurgists showed a muffle furnace in operation.

A display of all the varieties of wood used commercially was given by the Forest Products Laboratory. A new process of fireproofing shingles was illustrated. A machine used in the laboratory for testing the inflammability of shingles was also on hand.

The comparative cost and value of various road materials was shown by the Department of Roads and Pavements. The exhibit included examples of roads used in various Wisconsin cities. The various stages in the manufacture of paving asphalt was explained by the members of the department.

## NEW BUILDING MATERIAL CO.

Composed of People Who are all Well Known in the Business.

It is seldom that a new firm in the building field is so well known at the start as the Colburn-Murray Brick Co. It is composed of A. S. Dinnie, R. R. Colburn and T. J. Murray.

Mr. Dinnie was formerly a member of Dinnie Bros., contractors and building material dealers, at Grand Forks, N. D.

R. R. Colburn was with the Hydraulic Pressed Brick Co., in Minneapolis for ten years. For the last two and a half years, he has been with the Hebron Fire & Pressed Brick Co., of Hebron, S. D.

T. J. Murray was with the John F. McDonald Lumber Co. of Minneapolis for two years; and previously with the W. B. Ferris Brick Co. of Columbus, O.

The Colburn-Murray Co. has located its offices at 630 McKnight building, Minneapolis, and will do a general brick and building material business in Minnesota, North Dakota and South Dakota. The lines will include face brick, fire brick, terra cotta, ornamental iron, metal sash and trim, waterproofing and fireproofing.

A. A. Lenroot, secretary, Lenroot-Flynn Agency, is general chairman for raising \$100,000 to build a new orphans' home at Superior, Wis.; headquarters, Superior Hotel.

## PLANS AT BUILDERS' EXCHANGE, MINNEAPOLIS.

Plans on file March 27: School, Medina, N. D., Mar. 29; school, Medina, N. D. (mechanical equipment), Mar. 29; school, Pierre, S. D., Mar. 30; store and office building, Fargo, N. D., Mar. 30; warehouse, St. Cloud, Minn., April 1; school, Lamberton, Minn., April 5; armory, Madison, Minn., April 10; school, Willow City, N. D., April 13; church, Strum, Wis., April 15; high school, Grand Forks, N. D., April 27; residence, Miles City, Mont.; theater, Madison, S. D.; elevator building for Fruen Cereal Co.; residence, Lake of the Isles blvd.; bank building, Hayti, S. D.; school, McGregor, N. D.; hospital, Minot, N. D.; postoffice building, Ardmore, Okla., April 28; school, Kenyon, Minn., April 12.

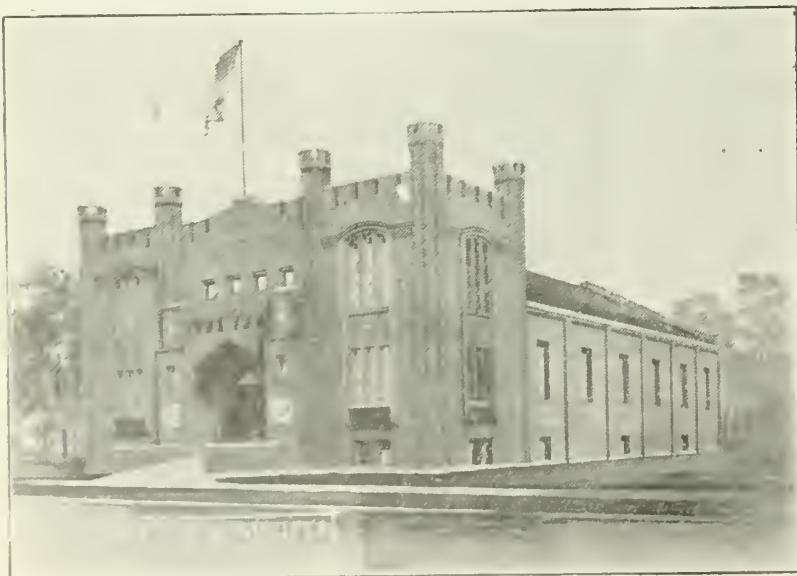
Bids in: Des Moines, Iowa, postoffice; St. Cloud, Minn., power house, state reformatory; Independence, Wis., school, B. Schneider, Independence, Wis.; Wahpeton, N. D., bank, P. F. Powers, Fargo, N. D.; Jamestown, N. D., store and office building; Valley City, N. D., church, W. H. Curran, Valley City, N. D.

An architects' competition for plans for a junior high school will be conducted by the La Crosse (Wis.) school board.

Range engineers will hold the first banquet of the Range Engineers' club, April 14, at Virginia, Minn.

## FAIRMONT'S NEW HOME FOR COMPANY E, M. N. G.

Among the major improvements in Fairmont in 1914 is the new armory, built by the state as a permanent home for Company E, 2nd Inf., M. N. G. While this building is primarily for the accommodation of the citizen-soldiers as a drill hall and headquarters, it will also be available to the general public for social and other public functions. Col. John Buschers, of New Ulm, commanding the 2nd regiment, thoroughly inspected the new building, preliminary to its formal acceptance by the state. He expressed himself as highly pleased with the structure and all its appointments and said that no city in the state has gotten so good an armory for the money. While this building is a permanent asset to Fairmont, it is the property of the state of Minnesota, the legislature having made an appropriation of \$15,000 with which to build. Fairmont raised the money to purchase the site by popular subscription.



NEW ARMORY, FAIRMONT, MINN.



# PERSONAL AND GENERAL NEWS.

## Doings of the Northwest this Week Boiled Down for Busy Readers

### PERSONAL AND GENERAL.

The largest drainage proposition which has been undertaken for some time is the Big Cedar drain, the counties of Clay, Buena Vista, Palo Alto, Sac, Calhoun and Pocahontas, Iowa, being interested in the proposition. The new district takes in about 206,000 acres at an estimated cost of \$400,000.

W. R. Fowler and Jos. Scribner of the Scribner-Kelly Land Co. of Minneapolis, have been making arrangements to have some land they recently purchased on Deer Lake platted into summer resort properties according to a report from Grand Rapids, Minn. The report says: They bought some 1,500 acres of land which includes the lake frontage of about eight miles on Deer and Moose lakes, about twelve miles north of Grand Rapids, and are planning on making it one of the best summer resorts in the country. Among other things planned is a fine hotel, cottages and similar accommodations. Weuswig & Webster, civil engineers, have the contract for surveying and laying out into lots some 1,200 acres, while John S. Siverts has the contract for 300 acres. The surveying will include the laying out of lots, boulevards, streets, etc.

Henry Gerharz, surveyor general of Montana, sees proof that the state is being settled rapidly in the record of applications for survey work. Many of them are from men who have settled on unsurveyed government land and want to file for homesteads. He believes that the coming season will be a record-breaker for government surveying in Montana. Mr. Gerharz is mapping out in a tentative form much of the field work which is to be done this year. Applications for surveying have been received at his office in Helena, from settlers in all parts of Montana and he believes that his department will survey considerably more than 2,500,000 acres during the 1915 season. The 7,558 miles of government surveying in 1914 cost \$98,536, or \$13.04 per mile.

Tomlinson & Mitchell, wholesale lumbermen of Winnipeg, Manitoba, have opened a Minneapolis office at 502 Plymouth building. W. H. Hoover, who has been representing them in the local market for the past several months, will be in charge of the new office and will call on the trade in Minneapolis and St. Paul.

The following is from an esteemed contemporary, The Otogolowski, of Petrograd, copied in action: "The reason why I have heretofore been able to sell my goods so much lower than anybody else is that I am a bachelor and do not need to make a profit for the maintenance of a wife and children. It is now my duty to inform the public that this advantage will shortly be withdrawn from them as I am about to be married. They will therefore do well to make their purchases at once at the old rate."

J. W. Farr and C. F. Spann is a new firm of contractors and builders at Oskaloosa, Iowa.

Geo. F. Hughes, contractor, Council Bluffs, Iowa, is the new postmaster there.

Stockholders of the Barron Red Pressed Brick Co., of Barron, Wis., recently elected the following officers and directors: President, J. P. Kohl; vice president, Otto Berg; secretary and treasurer, M. I. Berg; sales manager, G. A. Koerner; directors, J. P. Kohl, Otto Berg, J. R. Ferris, N. O. Strand and L. K. Sather.—Rock Products.

Herman G. Foster is president of the newly incorporated Tomahawk (Wis.) Crushed Rock & Gravel Co.

F. E. Bradley is president of the new Winnebago (Minn.) Hollow Brick Block & Tile Co.; capital \$75,000; M. J. Haase, vice president; C. C. Vickerman, secretary; Jas. Stevenson, treasurer. It is stated that the new company will buy the Winnebago Drain Tile Co. plant.

Contractors will be interested in knowing that the Leon C. Warner Co., Warner building, Minneapolis, Minn., have the exclusive agency and are carrying a stock of all sizes of "The Standard" low charging concrete mixers, manufactured by the Standard Scale & Supply Co., of Pittsburgh, Chicago, New York and Philadelphia.

The "Standard" mixer is a batch mixer with the low direct charge. There are no high platforms to tear down and rebuild every time the mixer is moved. There are no complicated side loaders. The machine is a compact, complete, outfit on a truck. It has been used successfully on concrete, cement and lime plaster. It is said that there are over five hundred of "The Standard" mixers in use in the city of Chicago alone. Catalogs or any other information will gladly be furnished by the Leon C. Warner Co., Warner Building, Minneapolis, upon request. S. A. Jamieson, manager.

The Meinecke Building Co., announces it has removed from Marmarth, N. D., to the Commercial Bank building, Fargo, N. D., where the company will continue general contracting and specializing in fireproof work.

Bidders on county ditch 36, awarded to North Star Concrete Co., Mankato, at Mankato, at \$23,100, were: Desmoroux Construction Co., Mankato, \$29,000; L. P. Axelsson, Clear Lake, Iowa, \$29,000; Alex. Hanson, Lake Crystal, \$23,500; North Star Concrete Co., Mankato, \$23,100; Hawkeye Construction Co., Webster City, Iowa, \$28,275; G. Gilbertson, St. James, Minn., \$27,380; The Widell Co., Mankato, \$29,000; Oscar Crowley Emmetsburg, Iowa, \$27,500. Those present included: Bert S. Anderson, Tracy, representing Anderson & Arthur, ditch contractors; Ed. Hubmer, Raymondville, Tex.; D. H. Seiter, Tracy; D. C. Armstrong, Sioux City; A. J. Larson, Mason City; Henry Teget, Webster City; Chris and L. J. Avelson, Clear Lake; H. M. Sparboe, Webster City; W. P. Rahilly, Austin; L. Smaage, Windom; P. L. Revord, Pocahontas; G. A. Green, Lake Wilson and others.

The Sioux City Concrete Pipe Co. will file articles of incorporation, says a published announcement, of the plans of the manufacturing concern made this week by G. R. Whitmer, president of the company, and Ed. H. Backemeyer, secretary and manager. A factory will be erected this summer on a tract of land owned by the G. N. R. Co. in 4th st., between Pavonia and Division sts., concrete sewer pipe, drain tile and cement blocks will be manufactured.

### ARCHITECTS AND ENGINEERS.

Wm. L. Peddicord, architect, Waterloo, submitted plans that were accepted for the country residence of the Hahanke Brothers at Parkersburg, Iowa. Mr. Peddicord has drawn plans and let contracts amounting to about \$100,000 at Parkersburg and vicinity.

A curious typographical error in this column last week made "Architect B. D. Keck, Crookston," read "Archibald B. D. Keck."

W. L. Van Ornum, chief building inspector, St. Paul, has received a letter from J. H. Yeaman of Nashville, Tenn., urging him to support a plan to form a national association of building inspectors.

Butler Smith, civil engineer of Milbank, S. D., has been appointed county surveyor for Grant county, South Dakota, says Engineering and Contracting. Mr. Smith specializes in bridge work and ditching, and during his term of office will have the superintendency of construction of the Grant county court house, a \$100,000 building. Mr. Smith has been connected with railroad work through most of his professional career.

A. E. Anderson, assistant chief engineer, Oliver Iron Mining Co., read a paper on Commission Form of Government, at the recent meeting of the Range Engineering Society.

Iowa architects have an interesting booklet available in the Proceedings of the Twelfth Annual Convention of the Iowa Chapter of the American Institute of Architects. The contents include reports and addresses, and a copy of the proposed bill for licensing architects. The booklet is ornamented with a frontispiece showing a group of architects: Thos. T. Carkeek, Dubuque; Fridolin Herr, Dubuque; Wm. L. Steele, Sioux City; Eugene H. Taylor, Cedar Rapids; Geo. H. Washburn, Burlington; Wm. Beuttler, Sioux City; Ralph Arnold, Sioux City; H. E. Ratcliffe, Keokuk; Frances T. Lowrey, Sioux City; Thomas W. Reiley, Ft. Dodge.

Special arrangements are being made for a big and interesting meeting of the Montana Society of Engineers, at Butte, April 8-10. The committee in charge of preparations includes: Reno Sales, Prof. Clinton Moore, Sam Barker and Messrs. Dunshea and Bacon.

Carl Nystrom, architect, Duluth, formerly of Bray & Nystrom, is now at 504 Palladio building, Duluth.

J. B. Heinmiller, architect, of Redfield, S. D., has been elected superintendent of schools, at Clark, S. D. He says the building season has opened briskly, with prospects including a school to cost \$30,000 to \$40,000; and a theater. The contract has been let on the latter to H. F. Stolte.

Fred Peterson, of Omaha, is architect of the Tel. Jed. Sokol Turners' auditorium at Schuyler. It is to cost about \$45,000, seat 1,500, contains a gymnasium, dining room and club features and be fireproof.



The Winslow Concrete Computing slide rule has just been put on the market by Henry W. Tomlinson, 64 E. Van Buren st., Chicago, Ill. Benjamin E. Winslow, engineer and architect, and author of Winslow Tables, is the inventor. It is arranged for quickly calculating reinforced concrete slabs, beams and girders; and for any load, loading, span, thickness, percentage of steel, size and spacing of reinforcements, etc.

J. H. Craddock of Omaha, is architect of the state hospital at Kearney. Walter Knudsen of Kearney has the contract to build it.

#### A MODERN GYMNASIUM TO BE BUILT.

Creighton university, Omaha, Neb., will erect one of the finest gymnasiums in the west this year if permission for the proposed undertaking is received from the higher church authorities in Italy. The plans for the gymnasium, so long talked of by Creighton men, have been sent to Italy for ratification and will probably be approved.

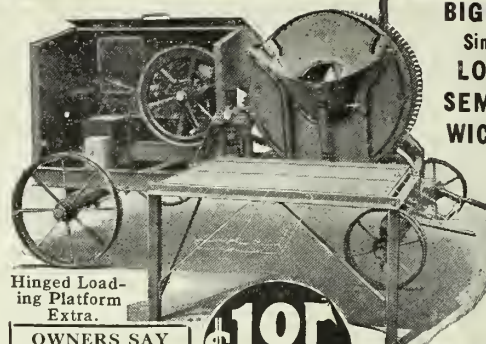
The proposed gymnasium at Creighton will be the finest that modern ideas in athletic lines demand. Instead of the \$80,000 structure which was at first talked of, the plans have been materially changed and approximately \$175,000 will be expended. The structure will be three stories in height and will be surmounted by a roof garden. In addition to the regular gymnasium facilities the building will contain fifty rooms for students and will relieve the present congested situation in the annex.

The gymnasium will comprise all of the up-to-date apparatus now used in indoor athletics. After extensive travel and inspection of the best structures in the country, the university authorities and the architect have drawn their plans. The building will contain a swimming pool, hand ball alleys, bowling alleys, billiard rooms and a running track.

The first floor will be the regular gym floor, with a basket ball court and a running track, while a swimming pool will connect. The second floor will contain three large hand ball courts, while on the third will be more hand ball courts, a billiard room, library and students' rooms. A roof garden will top the structure. Five hundred lockers will be distributed among the students.

As soon as the permission to erect the structure is granted work will begin, as the university already owns the property. It is thought work may begin in May and the building be finished by the following Christmas. The contract has not yet been let.

## The Mixer Sensation Of The Chicago Cement Show



Hinged Loading Platform Extra.

**OWNERS SAY**  
*S. W. Hill & Son, Minn., say:* Mixes fast and thoroughly. Everybody likes the "mixer". Batch hopper measures fine, etc.  
*W. H. Borrough, Ohio, says:* We investigated all mixers; glad we bought the Packard 3 H. P. Engine a success. Cut mixing cost 30%, etc.  
*F. O. Ennis, Minn., says:* Have tried it (the Packard) on all kinds of work. It does its work easy and quick. It is built to last, and is simple and handy. It is easy to move over any kind of road. I think anyone buying a mixer would save money by getting a Packard.  
*Hundreds of other letters, names, addresses etc. on application.*

**\$185**

**BIGGEST IN QUALITY**  
Simplest in Construction  
**LOWEST IN PRICE**  
**SEMI-STEEL GEARS**  
**WICK OILING BOXES**

**BATCH A MINUTE**

**SAME MIXING ACTION AS BIG PAVERS.**

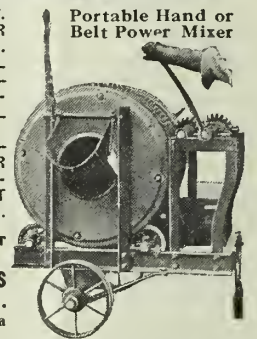
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**Packard**  
HAND AND POWER MIXER

**BUYS THIS FIVE FT. CAPACITY MIXER COMPLETE—BIG 3 H. P. ENGINE—STEEL ENGINE HOUSING—LOW CHARGING BARROW HOPPER—ALL ON STEEL TRUCKS. POWER LOADER—MEASURING WATER TANK—BATCH HOPPER—EXTRA HOIST CAN BE FURNISHED.**

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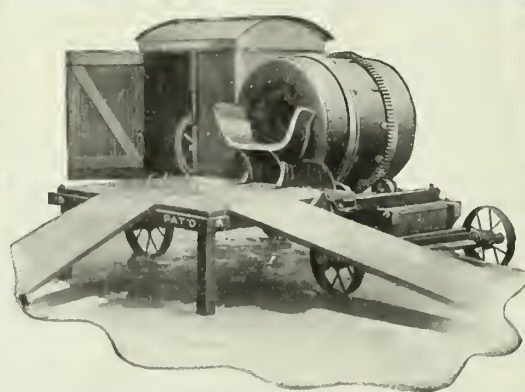


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FROM THE GROUND.**

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No platforms to build  
No complicated side loader  
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Will not clog  
Does not slop  
Batch can be seen while mixing  
Self oiling rollers  
Best engines on market  
No expert required



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WARNER BUILDING  
MINNEAPOLIS, MINN.



# Barrett Specification Roofs

*Approved by the Underwriters' Laboratories*

THE Underwriters' Laboratories of Chicago investigates and classifies all kinds of building materials for the Fire Underwriters, and the result of these investigations is used in the consideration of insurance rates and classifications.

In main, its reports cover fire hazard, but its investigations also include: durability, strength, practicability, etc., of the product or material tested.

We filed with the Underwriters' Laboratories a set of claims regarding Barrett Specification Roofs and materials.

Their investigation of these claims, covered several years and included a tremendous work in their own testing plant in Chicago and in the field where a large number of old roofs were visited and studied. Their report substantiates our claims, as will be seen by the following excerpt:

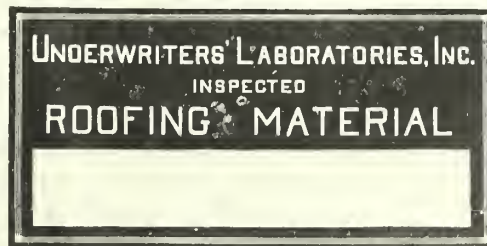
"Their roof coverings (Barrett Specification Roofs) have been shown by tests and investigations at Underwriters' Laboratories to afford a high degree of fire protection to roof deck; to be not readily inflammable and not to carry or communicate fire to any material extent; not to slip from position when heated; to possess little or no flying brand hazard; to exert considerable blanketing influence upon fires within buildings; to be durable under service conditions for periods in excess of 10 years; and to fulfill the requirements for the classification given." No wonder Barrett Specification Roofs take the base rate of insurance.

Photographs taken after conflagrations and reproduced in the Report show Barrett Specification

Roofs with large areas still intact in gutted buildings, constituting, with brick walls and large charred timber, the sole survivors of the fires!

We have accepted the inspection service of the Underwriters' Laboratories at our factories for regular testing of the materials for these roofs as to quality and weight of Barrett Specification Tarred Felt and Barrett Specification Pitch, and henceforth these

materials will carry the Underwriters' Laboratories label in addition to our own Specification label.



*A copy of The Barrett Specification, with roofing diagrams, also complete report of Underwriters' Laboratories mailed free on request.*

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Pittsburgh	Detroit	Birmingham	Kansas City	Minneapolis	Salt Lake City	Seattle
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# PROPOSAL ADVERTISING FOR BIDS

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for service and give you the best kind of  
men. Your patronage solicited. Phone, write  
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S. Canal St., Chicago; Bell Phone Franklin  
4729. We are also boarding camp contratt-  
ors—complete outfits furnished.

### NOTICE TO CONTRACTORS.

Additions and Alterations, Normal School  
Aberdeen, S. D.

The undersigned hereby gives notice  
that sealed proposals for the erection of  
a new East Wing and alterations to the  
Main Building of the Central building of  
the Northern Normal and Industrial  
School at Aberdeen, S. D., including all  
labor and materials will be received by  
the Board of Regents of Education of  
South Dakota, at Aberdeen, S. D., until  
the hour of ten A. M., on the fourteenth  
day of May, 1915.

All bids must be in strict accordance  
with the plans and specifications, pre-  
pared by J. W. Henry, architect; of  
Aberdeen, S. D., which may be seen at  
the office of the architect; at the office of  
the State Engineer, Homer M. Derr,  
Pierre, S. D.; at the Builders' Exchange  
at Minneapolis, Minn., and with the secre-  
tary of the Board at Big Stone City, S. D.,  
on and after the twentieth day of April,  
1915.

Contractors wishing plans shall deposit  
\$10 for use of same, the deposit to be  
refunded when plans are returned and  
bona fide bid submitted. All bids shall  
be made out as per forms given in spec-  
ifications, sealed and marked, "Bid on  
General Contract," "Heating," etc., as the  
case may be.

A certified check for three per cent of  
the amount of bid must accompany each  
bid, as a guarantee that bidder will enter  
into contract and furnish a satisfactory  
security bond in the full amount of the  
contract for the faithful performance of  
the work, within five days from the time  
he is notified that the bid is accepted.

The right is reserved to reject any and  
all bids.

T. W. DWIGHT, President.  
IRWIN D. ALDRICH, Secretary.

## Proposal Index

Bids Close		See Imp. Bulletin Dated
April 7.	Bridges, Sibley, Iowa.....	Mar. 13
April 10.	Armory, Madison, Minn.....	April 3
April 12.	School, Kenyon, Minn.....	Mar. 26
April 13.	Sewer Work, St. Cloud, Minn.....	Mar. 27
April 13.	School, Willow City, N. D.....	Mar. 13
April 15.	School, Lamberton, Minn.....	Mar. 20
April 15.	Church, Strum, Wis.....	Mar. 27
April 15.	Culverts, Windom, Minn.....	Mar. 27
April 16.	Road Work, Walker, Minn.....	Mar. 27
April 21.	Electric Light System, Larchwood, Iowa.....	Mar. 27
May 6.	Warehouse, Normal School, Aberdeen, S. D.....	April 3
May 14.	Add. and Alters., Normal School, Aberdeen, S. D.....	April 3

## PROFESSIONAL DIRECTORY

### ENGINEERS

### OSCAR CLAUSSEN ENGINEERING COMPANY

Consulting Engineers.  
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### CHARLES L. PILLSBURY

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Original Siphonage Ventilator  
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# CONSTRUCTION & CONTRACT NEWS

OF SPECIAL VALUE TO ENGINEERS, CONTRACTORS, BUILDERS AND MANUFACTURERS

## MINNEAPOLIS, MINN.

Office, 716 Lumber Exchange.  
Phones: N. W. 3902. T-S. Center 2194.  
Please telephone news not later than Wednesday.

Items marked with asterisks not in Daily Sheets.

### Building Permits.

Mathilde T. Jensen, 3858 Garfield av., 1-story brick veneer and plaster veneer dwl.; address owner.....	3,000
G. A. Thayer, 2516 W. 22d st., 2-story plaster veneer duplex; address owner, 3244 Harriet av.....	5,500
N. O. Hagines, 3019 N. Queen av., 1-story plaster veneer dwl.; address owner.....	1,500
F. T. Hamilton, 3542 15th av. S., 1½-story plaster veneer dwl.; address owner.....	1,800
Clare Budde, 2515 N. Newton, repairs after fire; C. M. Cole, builder; address owner, 2640 Colfax av. N.....	1,600
T. E. Harrington, 4125 27th av. S., 1½-story frame dwl.; address owner.....	2,500
P. J. Shimmers, 2914-15 Cedar av., 1-story frame addition over kitchen, alterations, concrete block and stone foundation under dwl.; address owner, 2116 22d av. S.....	1,000
Mrs. H. Loheek, 806 Superior SE., 2-story plaster veneer dwl.; Adolph Wurtz, builder; address owner, 1011 19th av. SE.....	4,500
G. W. Noble, 75-77 Bedford st. SE., 2-story plaster veneer flats; F. R. Noble, builder; address owner, 710 Washington av. SE.....	8,000
Consumers Artificial Ice Co., 2532-34 Nicollet av., 1-story brick and steel and reinforced concrete ice plant; contract not let; address owner, Northwestern blk.....	30,000
Mauritz Anderson, 3630 14th av. S., 1-story frame dwl.; address owner, 3044 16th av. SE.....	1,800
Jos. M. Baltuff Bldg. Co., 2403 Garfield st. NE., 1½-story frame dwl.; address owner, 244 Security bank bldg.....	2,340
Jos. M. Baltuff Bldg. Co., 200 N. Vincent, 1-story frame dwl.; address owner, 244 Security Bank Bldg.....	1,400
Jos. M. Baltuff Bldg. Co., 2012 23d av. S., 1½-story frame dwl.; address owner, 244 Security Bank Bldg.....	2,160
Jos. M. Baltuff Bldg. Co., 2921 E. 24th st., 1½-story frame dwl.; address owner, 244 Security Bank Bldg.....	2,290
Jos. M. Baltuff Bldg. Co., 1409 8th st. SE., 1½-story frame dwl.; address owner, 244 Security Bank Bldg.....	1,950
W. W. De La, 5153 S. Penn., 1-story frame dwl.; address owner.....	2,000
J. V. Koler, 165 Arthur st. SE., 2-story plaster veneer flats; address owner.....	9,000
E. G. Peterson, 3015 Snelling av., 1½-story frame addition, alterations changing dwl. to duplex; C. G. Victorson & Co., builders; address owner, 1835 Buchanan.....	1,200
O. B. Currier, 4133 Harriet av., 2-story plaster and shingle veneer dwl.; address owner, 3416 Blaisdell av.....	2,500
Withig Realty Co., 714-18 Hennepin av., interior alterations and stairways; address owner.....	5,000
Floyd F. Hopf, 21 E. 48th st., 1-story frame dwl.; Ole Hildahl, builder; address owner, 2733 Grand av.....	1,800
Jas. R. Ralph, 4354 Garfield av., 1½-story brick veneer and plaster veneer dwl.; J. O. Wardell, builder; address owner, 3627 Lyndale av. S.....	3,500
Thomas Sweeney, 2848 S. Irving, 1-story plaster veneer 3d story addition to flat building, alterations front porches; W. M. Crawford & Co., contractors; address owner, Hotel Radisson.....	2,700
R. N. Gibson, 2707 Marshall st. NE., 1½-story frame dwl.; Hemmerson & Halstad, builders; address owner, 10 W. 14th.....	2,000
R. N. Gibson, 2711 Marshall st. NE., 1½-story frame dwl., Hemmerson & Halstad, builders; address owner, 10 W. 4th.....	2,000
Miss O. Adele Evers, 2114 Pleasant av., one brick veneer addition, repairs after fire; N. Jensen, builder; address owner, 2118 Pleasant av.....	4,000
International Christian Unity Bible College, 1501-11 University SE., 2-story brick and steel reinforced concrete college building; C. G. Ericson, builder; address owner, 1601 11th av. S.....	75,000
D. A. Pellat, 1605 W. 31st st., concrete block foundation under part of dwelling, alterations; American Realty & Building Co., contractors; address owner, 1605 W. 31st.....	1,060
Chase Investment Co., 1826-30 Stevens av., 3-story, brick connecting addition between buildings; C. C. Chase, builder; address owner, 614-16 Security Bank building.....	9,000
Wm. F. Skuza, 1071 12th av. SE., 1½-story frame dwl.; S. J. Larrabee, builder; address owner, 1101 SE. 7th.....	2,000
M. V. Baker, 3016 33d av. S., 1-story plaster veneer dwl.; A. L. Hanson, builder; address owner, 1025 3d av. S.....	2,100
H. D. Sweeney, 4140 Park av., 1½-story plaster veneer dwl.; address owner, 4140 Park av.....	2,500
Mrs. Blanche M. Parker, 4128 S. Colfax, 1½-story plaster veneer dwl.; address owner.....	4,000
Cedar Lake Ice Co., 2431 Hiawatha av., 1-story frame coal sheds; address owner, 1224 Plymouth building.....	1,000
J. F. Ryan Building Co., 3801 Harriet av., 2-story, plaster veneer flats; address owner, 4317 Colfax av. S.....	8,000
J. A. Madden, 3536 S. Colfax, 1-story plaster veneer dwl.; address owner, 1706 Irving av. N.....	3,000
C. W. Bylund and Albin Swenson, 3649 25th av. S., 1½-story plaster veneer dwl.; address owner.....	2,000
A. H. Bates, 2819 W. 42d st., 1½-story frame dwl.; address owner, 2918 Girard av. S.....	2,500
Chas. Nyborg and Ben Baker, 4147 30th av. S., 1-story	

frame dwl.; address owner, 4146 30th av. S.....	1,000
Lawrence Howe, 4825 Stevens av., 1-story plaster veneer dwl.; address owner, 2117 Pleasant av.....	2,000
Minneapolis Heat Regulator Co., 2747-53 4th av. S., 1-story brick, tile and reinforced concrete addition to factory, 1-story brick, tile and reinforced concrete 3d story addition to factory; Pike & Cook Co., contractors; address owner, 2747 4th av. S.....	10,000
W. R. Ambrose, 3828 2d av. S., 1½-story plaster and shingle veneer dwl.; Anderson & Erickson, contractors; address builders, 300 Plymouth bldg.....	2,500
E. H. Erickson, 109-15 Spruce pl. and 202 W. Grant st., interior alterations, changing tenement to flats; W. P. Hultgren, builder; address owner.....	4,000

Permit was issued this week for the Bible college to be built at 1501-11 University av. SE., for the International Christian Unity Organization. Plans drawn some time ago by John D. Koester, architect, Iron Exchange. Contract to C. G. Erickson, 1601 11th av. S.; 100x100, 2-story, stone, brick, steel, tile, reinforced concrete dome forty-five feet high with glass roof, steam heat modern, \$75,000.

J. E. Nason, architect, Corn Exchange, has furnished plans for a four-flat at 33d and Stevens, for Frank Pilcher, Plymouth building; 58.6x39, 2-story, four hot water heating boilers, concrete foundation, brick veneer, tile baths, gas stoves, ice boxes, sideboards, three trays. Architect taking figures. Plans also being made by Mr. Nason for a bungalow for Frank Pilcher and let contract for four-flat: 26x42, 1½-story, tile bath, hot water heat, modern, sideboard; plans completed.

Motor speedway companies have merged; Twin City and Minnesota Motor Speedway will be hereafter the Twin City Motor Speedway Association; capital, \$1,000,000; former governor John Lind, Minneapolis, and Henry Habighorst, St. Paul, directors. Location of speedway to be announced later. J. D. Hogan, 542 Lumber Exchange, chairman, board of directors.

A new artificial ice plant will be built on the west side of Nicollet av. between 25th and 26th st. by the Consumers' Artificial Ice Co., recently organized, and soon to have offices on the ground floor, Northwestern block, 4th and Hennepin; A. W. Selover, president (attorney), 910 McKnight building; brick, one and two stories, steel; time of letting indefinite; permit issued.

O. K. Westphal, architect, N. W. block, has furnished plans for a store and flat building, for A. Leitschuh, 113 Broadway, 13th av. and 2d st. N. E.; brick veneer, plumbing, heating, wiring, hot water heat; 26x65, 2-story, composition roof, plate glass front; owner lets work.

Wm. Channing Whitney, architect, Loan & Trust building, has furnished plans for improvements and additions to the Porter residence at Ferndale, Lake Minnetonka, recently bought by F. D. Welles; frame, 2-story, bathrooms, new steam heating plant, plumbing.

G. W. Noble, 523 Oak, will build a four-flat at 75 and 77 Bedford st. SE.; 38x54, 2-story, plaster veneer, hot water heat, modern, concrete block foundation, \$8,000; no architect. F. R. Noble, builder.

The Beck Electrical Construction Co. have the contract for the complete electric equipment of the eighteen apartment and store building, being erected by Madsen Bros., at 6th and Summit av., St. Paul.

\*Rose & Harris, engineers, Auditorium block, have completed plans for mechanical equipment for Johnson school; Stebbins & Haxby, architects Auditorium block. Bids in April 13 on general.

\*C. E. Bell, architect, Security Bank building, has completed plans for the Union City Mission hotel building, adjoining Pence opera house, 2d and Hennepin; steel contract let.

Construction of a new labor temple for Minneapolis unions is proposed; present quarters, Union Temple being too small; Dr. R. V. Phelan, University of Minnesota interested.

School board instructed business agent, to advertise for bids on addition to Johnson and Fuller schools, with alternate for fireproof, construction Fuller school.

Film exchanges, under a new ordinance, will be required to install by July 1, automatic sprinkler systems and fireproof vaults; 13 exchanges in city.

J. F. Ryan Building Co., 5404 Bryant S., will build a four-flat at 3801 Harriet, 32x70, plaster veneer, hot water heat, 2-story, concrete foundation; owner builds, \$8,000.

A stable will be built for state university battery of artillery; 40 horses.

(Continued on page 21.)



## Contractors' Bonds, Workmen's Compensation, Employers & Public Liability Insurance

"NO RED TAPE OR DELAY"

ROYAL INDEMNITY CO.  
BONDING DEPARTMENT  
ASSETS \$3,514,125.50

Both Phones 622

The Hood & Matschke Co.  
GENERAL AGENTS

PHOENIX BUILDING

THE OCEAN ACCIDENT &  
GUARANTEE CORPN., Ltd.  
ASSETS \$4,823,371.79

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#### RUFUS P. MORTON

Manufacturer of

CREAM BRICK

Princeton, Minn.

Orders, large or small, filled promptly.  
Correspondence Solicited.

#### ARMORY BUILDING. Madison, Minnesota.

Notice is hereby given that bids will be received by the Board of Armory Supervisors of the State of Minnesota, at the office of Capt. A. M. Larson, Madison, Minnesota, for the building and construction complete in accordance with plans and specifications of an Armory building located in the city of Madison, Minn.

Copies of the plans and specifications can be found at the office of the St. Paul and Minneapolis Builders' Exchange and at the office of Captain A. M. Larson, Madison, Minnesota. All bids must be received at the above mentioned place on or before two o'clock P. M. April 10th, 1915, and will be opened at said office at five o'clock, P. M., of said day.

Contractors bidding will deposit \$5.00 for the use of plans and specifications, same to be refunded when plans are returned.

The right is reserved to reject any and all bids. The successful bidder must be prepared to immediately deposit with the said Board a certified check in the sum of ten per cent of the bid as evidence of good faith, to be forfeited if he shall

fail or refuse to enter into contract to do said work as such contract shall be prepared by the Architect.

Contractors are required to submit with their proposition the amount they will deduct providing the following items of work are omitted from the plans and specifications:

1. Omitting excavation of basement and coal bin.
2. Omitting all plaster on drill hall walls.
3. Omitting all basement floors.
4. Omitting Puliman ventilator intakes.
5. Omitting balcony.
6. Omitting two lights in gallery and receptacles in officer's room.

The accepted bidder will be required to furnish a bond for the full amount of his contract.

Board of Armory Supervisors of Minnesota.

By COLONEL JOHN RUSCHERS.

Dated New Ulm, Minnesota.

March 20th, 1915.

#### BIDS FOR PLUMBING, HEATING AND VENTILATION. Independence, Wis.

Notice is hereby given that sealed proposals for the plumbing, heating and ventilating for school building at Independence, Wis., will be received until 11:00 A. M., April 15, 1915.

A certified check for the sum of \$300.00 for the Heating and Ventilating, and \$200.00 for the plumbing, must accompany each bid.

The right is reserved to reject any or all of these bids.

A bond in the full amount of the contract to be furnished by successful bidders.

Plans will be on file with Sec'y. of School Board, and the Builders' Exchanges of Minneapolis, St. Paul, Minnesota, and Milwaukee, Wisconsin, and also at the Architect's office, Mr. Olin H. Round, 202 Oppenheim building, St. Paul, Minnesota.

Plans are now on file.

(Signed.)

O. P. HUFF,  
President of Board.  
ANTON SENTRY,  
Treasurer of Board.

DR. C. F. PETERSON,  
Clerk of Board.

#### CHURCH, STRUM, WIS.

Sealed proposals will be received by Mr. Nils Robbe, Secretary of the Building Committee of the Norwegian Evangelical Lutheran Church at Strum, Wisconsin, until 2 P. M., April 15, 1915, for the erection and completion of a church building at Strum, in accordance with the plans and specifications prepared by S. Jacobson, Architect, St. Paul, Minn. Bids to be submitted only on form of bid supplied by the architect. Bids to be accompanied by a certified check of two (2) per cent of the amount of the bid, which check will be returned when building contract is executed. Plans and specifications will be on file at the Builders' Exchanges, St. Paul, Minn., and Minneapolis, Minn., at the office of the architect, at the office of the Secretary of the Building Committee at Strum, Wis., and one other city designated later.

Copies of plans and specifications can be obtained by paying for the cost of duplication of same, and depositing a certified check of \$10.00 to insure the return of plans and specifications.

The Building Committee reserves the right to reject any or all bids.

#### NOTICE TO BIDDERS.

Water Tank, Albany, Minn.

Sealed bids will be received by the Town Council of Albany, Minnesota, at their Council Room, up to 7:30 p. m., April 15, 1915, for the construction of a steel water tank and repairs to present tower, as per plans and specifications on file with the clerk.

A certified check, drawn on a local bank, for 10 per cent of the amount of bid, must accompany each bid.

Council reserves the right to accept or reject any or all bids.

Plans and specifications may be secured from the Clerk upon a deposit of \$5. (Signed.)

JOS. LEHNER,

Mayor.

THOS. TAMASEK.

Clerk.

#### Bricklayers' Foreman Position Wanted.

Wanted: Position as Bricklayer Foreman. I have had 16 years of experience and I am capable of handling big work. Will send references on request. Please write me at once.

Address Box 37, Improvement Bulletin.

(Continued on page 16.)



Send us your Plans. Our figures cost nothing, and You Will Save Money.

## Don't Make a Mistake!

You Can Buy the Best Sheet Metal Work

such as Cornices, Steel Ceilings, Skylights,  
Ventilators, Gutters, Ridgings, etc., etc.,

Right Here at Home—No Wait, No Worry

ST. PAUL ROOFING, CORNICE  
and Ornament Co.  
ST. PAUL, MINN.





## Twenty Miles of Tarvia roads—

State Road, Kittery, Maine.  
Constructed with "Tarvia X."

The motorist who rides out from Portsmouth, N. H., and crosses the State line at Kittery on the way to Kennebunk, Maine, will travel continuously over the new state road and for twenty miles will be always on a Tarvia roadway—firm, dustless, mudless—perfect in every way.

First comes a stretch of old macadam which has been treated with "Tarvia B" to prevent dust and preserve the surface. Then comes a stretch of tarviated macadam which has been built from the bottom up with "Tarvia X," the denser grade of Tarvia. Next is an area of gravel which has been treated with "Tarvia B" to preserve the surface, followed by two areas of "Tarvia X" construction. Further on in York and Wells are large areas

of concrete roadway which have been coated with "Tarvia A."

The road illustrates the versatility of Tarvia, and its applicability to varying conditions of traffic, varying character of foundation and varying character of road material.

There are many ways of using Tarvia effectively, and there are several grades of Tarvia to meet varying conditions.

Tarvia is, by nature, waterproof and adhesive. It contributes an element of plasticity to the roadway, obviating the tendency of ordinary macadam to crumble under modern automobile traffic.

The Tarvia treatment more than pays for itself by the decided saving in maintenance costs which it makes possible.

### Special Service Department

This Company has a corps of trained engineers and chemists who have given years of study to modern road problems. The advice of these men may be had for

the asking by anyone interested.

If you will write to the nearest office regarding road problems and conditions in your vicinity the matter will have prompt attention.

### BARRETT MANUFACTURING COMPANY

New York	Chicago	Philadelphia	Boston	St. Louis	Cleveland	Cincinnati
Pittsburgh	Detroit	Birmingham	Kansas City	Minneapolis	Salt Lake City	Seattle
THE PATERSON MFG. CO., Limited: Montreal			Toronto	Winnipeg	Vancouver	St. John, N. B.
Halifax, N. S. Sydney, N. S.						





**Employers' Liability Insurance  
Surety and Fidelity Bonds.**

## FRED L. GRAY COMPANY

THE LARGEST AGENCY OF ITS KIND  
IN THE NORTHWEST

More than 50,000 personal  
injury cases handled for  
contractors and others  
since 1892.

Security Bank Bldg.,

MINNEAPOLIS

**MR. CONTRACTOR:**

Does your job call for

## BEDFORD STONE?

if so why not send plans  
for estimate to

**The Edw. Edinger Co.**

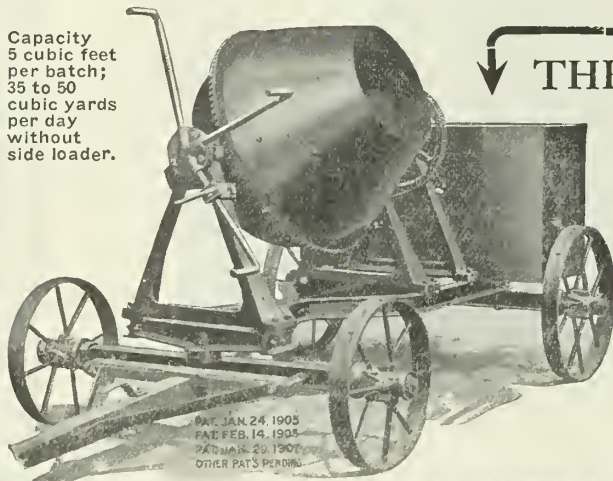
Cut Stone Contractors  
CEDAR RAPIDS IOWA

We please others and we can please you

**ROLLER WANTED.**

Wanted—5- or 6-ton tandem roller. Address, C. F. LYTJ-E, Sioux City, Iowa.

Capacity  
5 cubic feet  
per batch;  
35 to 50  
cubic yards  
per day  
without  
side loader.



THE

## Little Wonder "Five"

"The Mixer that Makes the Money"

Deserves your first consideration because it has proved its superiority with more of your brother contractors right in your own state, than any other. Ask us who and we'll put you in touch with them—then ask them why and they'll tell you it beats any mixer they ever used or heard about for quick, easy work and large dividends on investment.

Ten Days Free Trial and Satisfaction  
or We Pay the Freight

**Waterloo Cement Machinery Corporation**

220 Vinton Street, Waterloo, Iowa.

**Hale Concrete Machinery Company**

N. W. Agents, 1043 McKnight Building, Minneapolis, Minn.

"CONCRETE FOR PERMANENCE"

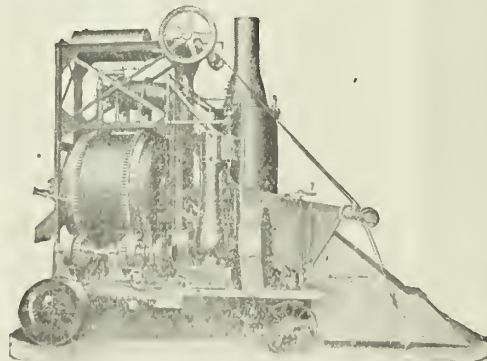


## CLEAN

sharp sand and  
Atlas Portland  
Cement are  
both used by  
the contractor  
who does qual-  
ity concrete  
work. Make no  
mistake—insist  
on both.

826 Plymouth Bldg., Minneapolis  
N. W. Phone Nic. 3962  
T. S. Center 3920

## The Mixer that Proves It's Quality by It's Record



The Koehring Hot Mixer for Bituminous Pavements.

**H**OW much you must charge up to depreciation and repairs are as important questions in determining the real cost of a mixer as the initial expense.

How much of your labor cost is due to delays directly traceable to the mixer is another important item to consider when comparing initial cost.

It's the Koehring Quality Mixer that proves its dollar-earning qualities by its record of continuous service and low cost of maintenance.

Catalogue 19, the most complete Mixer Catalogue, gives details.

**KOEHRING MACHINE COMPANY, Milwaukee, Wis.**

H. B. JONES, Dist. Mgr.  
350 Security Bank Building Minneapolis, Minn.

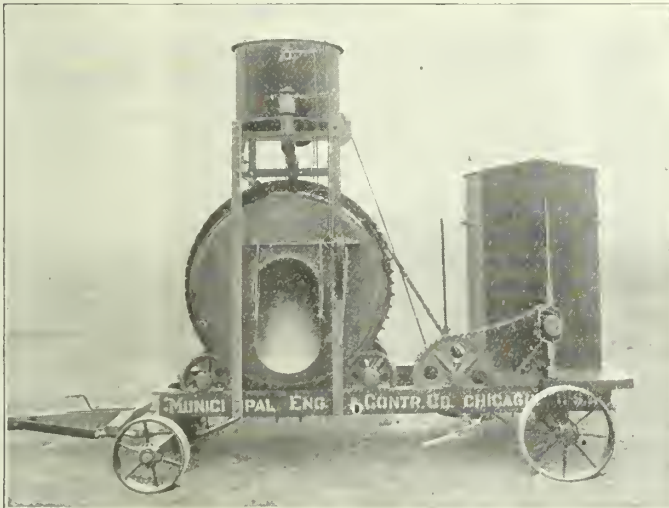


# A New Mixer By an Old Firm

## The Austin Drum Mixer

is made in the same factory and by the same workmen as the **Austin Cube Mixer**—the ma-

chine that mixed all the concrete used on the Panama Canal.



### You Take No Chances

When you buy an Austin Drum Mixer, because, for one thing, you know that it is made by one of the oldest and most reliable manufacturing concerns in the country.

A manufacturing concern that has achieved the standing and reputation that we have for square dealing will not take chances by offering a new machine unless it is up to the very maximum standard.

The very fact that we are making this mixer should be in itself a guarantee of its **high quality, workmanship and reliability**. It can be depended upon to do whatever is required of the best mixer on the market.

## There is nothing Cheap about the Austin Drum Mixer Except the Price!

### Just Think of It--\$325

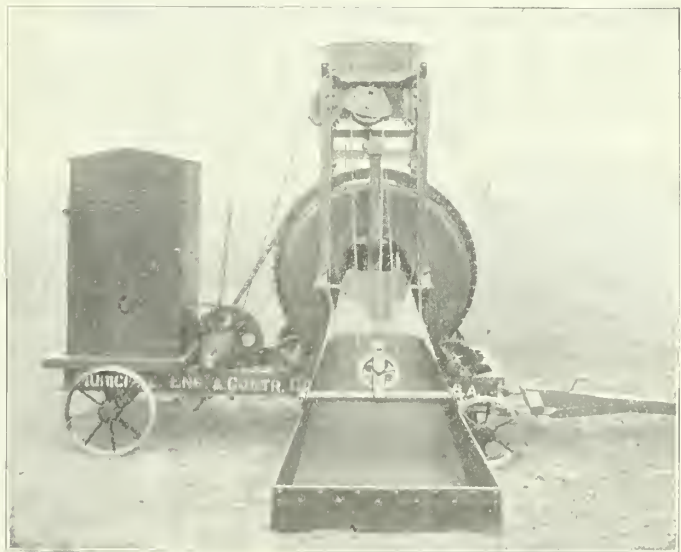
for a batch mixer that will mix a 1-2-4 mix. It is operated by a 3½-horsepower gasoline engine; friction clutch; engine covered with steel housing. Equipped with charging elevator and water tank. Elevating and discharge levers operated from the discharge side of the machine. Capacity, 60 to 80 cubic yards per day.

It is complete in every detail, and backed by one of the strongest concerns in the cement machinery industry.

### Equipment

Drum, holding 6½ cubic feet, made of blue enameled steel; 3½-horsepower, hopper cooled gasoline engine.

Charging hopper that will hold the full batch. Water tank holding 20 gallons.



## Municipal Engineering & Contracting Co.

RAILWAY EXCHANGE BLDG., CHICAGO, ILL.

### NELS ERICKSON

405 BOSTON BLOCK  
MINNEAPOLIS, MINN.

Northwestern Agents

We are also Northwestern agents for Paving Gauges, Pumping Outfits, Wheelbarrows, Cement Carts, Derricks, Gasoline Engines, Saw Rigs, Brick Machines, Gasoline Hoists, Block Machines (our own manufacture), Tile Machines, Sidewalk Tile Ma-

chines, Automatic Cement Block Tampers, Long-handled Finishing Tools, Wood Sawing Outfits, Stone Crushers, Steel Forms, Steam Rollers and other Contractors' Machinery.



**LINOFELT** should be your first thought this spring in building that new home—or remodeling the old one. We know you want COMFORT above all things. Get it. Use Linofelt. Actual tests show it to be thirty-eight times more efficient than building paper. The difference in initial cost will be made up the second winter in fuel saved; and more, you are sure of what you are after—COMFORT. We make every form of insulation preventing cold or heat from going through walls, floors or roofs. Write for illustrated booklets.

We Have It.  
Write today

**UNION FIBRE COMPANY, Winona, Minn.**

**STRUCTURAL STEEL and ORNAMENTAL IRON**  
BUILDING MATERIAL “Every-Thing-You-Need” MARBLE AND TILE  
**HAAKINSON & BEATY CO., SIOUX CITY, IOWA**  
ESTIMATES GLADLY FURNISHED PROMPT SHIPMENTS

#### OPPORTUNITY.

Awaits the man who **Thinks and Works**. A solidly expanding Lumber Company requires the services of several young men who are willing to work, willing to learn, and who are not afraid to assume responsibilities.

Preference will be given to those having a high-school education or its equivalent, knowledge of drafting, reading blue prints of houses, planning barns and other farm buildings, and some experience in carpentry and residences of farming sections.

Advancement lies ahead of those who show capacity, and increasing efficiency. Box 500—Improvement Bulletin, Minneapolis, Minn.

#### BIDS WANTED FOR SCHOOL. Kenyon, Minn.

Contractors are hereby notified that plans for the New High and Grade School

to be erected at Kenyon, Minnesota, by the Independent School District No. 91, of Kenyon, can be secured at the office of Alban & Lockhart, Architects, 347 Endicott Building, St. Paul, Minnesota, by enclosing with request for plans a certified check for \$10.00 to insure prompt return of drawings. Checks will be held by architects until contractors return plans.

Bids are desired on the following items:

General Construction.  
Heating and Plumbing.  
Electrical Work and Fixtures.  
Manual Training, Domestic Science and Gymnasium Equipment.

Bids must be delivered at the office of Dr. J. A. Gates, President of the Board, at or before 6:30 P. M., April 12, 1915, and must be plainly marked on outside of envelope, “Bids for the General Construction,” or whatever it may be. Bids

to be accompanied by certified checks as follows:

General Construction, 3 per cent of bid 1.

Heating and Plumbing, 5 per cent of bid 1.

Electrical Work, 10 per cent of bid 1. Bid on Equipment, 15 per cent of bid.

Certified checks will be returned at once to unsuccessful bidders and to the successful contractor upon execution of contract with bond.

It is desired that a representative of the Contractor be present at the opening of the bids.

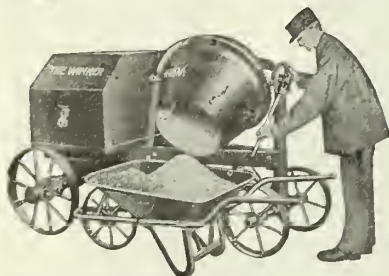
Signed.

INDEPENDENT SCHOOL DISTRICT  
NO. 91.

Kenyon, Minn.  
J. A. GATES, President.

(Continued on page 19.)

## WINNER MIXERS



FACTORY: WATERLOO, IA.

Are The Kind  
That Stand the  
Service Test

Ask us why

CHARLES HOUSTON  
District Manager

THE  
Cement Tile Machinery Co.

554-58 PLYMOUTH BLDG.  
Minneapolis, Minn.  
Phones: Nicollet 52. Annex 52



You can test this  
“NEW WAY” Concrete Mixer at your own work without the risk of a cent!

You'll find that it will stand the hardest kind of work for the longest time at the least expense.

You'll find that it will do the work in about half the usual time.

It is built for speed, durability and economy. Note this again. Our machines are sold on ten days' free trial, and our guarantee protects you absolutely. It is worth investigating. Get Catalog E.

E. Wege Concrete Machinery Co.  
118 SOUTH SECOND ST. LA CROSSE, WIS.

## The Atlas Mixer



Furnished with Batch Hopper or Power loader.

5 and 11 foot Capacity

### It's the Grind of Every Day Work that Counts

When you measure the work of a Concrete Mixer, the feature that will impress you most, is the day in and day out ability, to turn out the greatest amount of satisfactory work at the greatest profit. It is in this respect that the ATLAS MIXER proves its superiority in hundreds of cases every day. Its portability, speed and thoroughness in mixing, ease of handling and freedom from trouble and inconvenience enables the ATLAS to more than meet every requirement demanded by the most exacting contractor.

Send for the ATLAS Mixer book.

Atlas Engineering Company

MILWAUKEE, WIS.

1137-1138 Plymouth Bldg., Minneapolis, Minn.  
Telephones: Nicollet 5293. Center 2432.



**NOTICE TO GRADING CONTRACTORS.**

Walker, Minn.

Office of the County Auditor, Cass County, Minnesota.

Notice is hereby given that sealed proposals will be received at the office of the County Auditor of Cass County in the village of Walker, Minnesota, until 2:00 P. M., Friday, April 16, 1915, for the construction of State Rural Highways No. 81 and No. 83, located in said Cass County, Minnesota, at which time and place or such time or times as the auditor may then adjourn to, the contracts for the construction of said highways will be let to the lowest responsible bidder.

The construction of said rural highway No. 81 involves:

81.55 acres of clearing.  
55.45 acres of grubbing.  
30,975 cubic yards of surfacing.  
48,381 cubic yards of grading.  
129,000 linear feet of turnpiking.  
31,263 cubic yards of off-take ditches.  
56,324 cubic yards of side ditches.  
4,076 linear feet of corrugated metal culverts.

410 cubic yards of concrete culverts.  
Total estimated cost of work \$69,947.43.  
The construction of said rural highway No. 83 involves:

94.57 acres of clearing.  
56.70 acres of grubbing.  
10,746 cubic yards of surfacing.  
113,550 cubic yards of grading.  
47,850 linear feet of turnpiking.  
18,934 cubic yards of off-take ditches.  
20,100 cubic yards of side ditches.  
4,849 linear feet of corrugated metal culverts.

464 cubic yards of concrete culverts.  
2 (24-foot span) concrete and steel bridges.

Total estimated cost of work \$61,131.09.

Plans and specifications for the above work may be seen at the office of the County Auditor of said Cass County and at the office of George A. Ralph, Engineer in charge.

State Rural Highway No. 81 extends from the Village of Backus in said county in a westerly and southerly direction to the village of Motley a distance of 43 miles.

State Rural Highway No. 83 extends from the Village of Remer in said county southerly and easterly to the southeast corner of the county, a distance of 30 miles.

Bids must be made on blank forms which will be furnished by the engineer. Bids may be made on the whole or on one or more sections or other divisions thereof. No bid will be entertained which exceeds the engineer's estimate by more than 30 per cent. The right is reserved to reject any or all bids.

Each bid must be accompanied by a certified check for 10 per cent of the amount bid, made payable to the county auditor of said Cass County.

C. D. BACON, County Auditor.

GEORGE A. RALPH,

Engineer in charge,

410 Shubert Bldg., St. Paul, Minn.  
Dated at Walker, Minn. March 23, 1915.

**NOTICE TO CONTRACTORS.**

The Regents of Education of the State of South Dakota will receive sealed bids for the construction of a brick and tile warehouse on the grounds of the Northern Normal and Industrial School at Aberdeen, S. D., according to plans and specifications on file in the office of J. W. Henry, architect, and in the office of the secretary of the Northern Normal and

Industrial School, at Aberdeen, S. D.

Bids will be received at the office of Secretary W. M. Oates, N. N. & I. S., Aberdeen, S. D., up to and including May 6, 1915.

Bids must be accompanied by a certified check in the sum of ten per cent of the bid, as a guarantee that the successful bidder will enter into contract, and give a satisfactory bond for its completion, within the time, and in the manner specified. The board reserves the right to reject any or all bids.

THE REGENTS OF EDUCATION,  
IRWIN D. ALDRICH, Secretary.

**PROPOSALS FOR SEWER CONSTRUCTION.**

St. Cloud, Minnesota.

Notice is hereby given that sealed proposals will be received by the City Clerk of the City of St. Cloud, Minn., up to Tuesday April the 13th, A. D., 1915, for the construction of sewers in Sewer District No. 6, in accordance with the plans and specifications on file in the office of the City Clerk.

The proposal call is for 10,063 feet of from 8-inch to 15-inch pipe sewers, 28 manholes and 4 flushtanks—the material to be excavated is sand.

Plans, specifications and proposal blanks, can be secured from the City Clerk by making a deposit of \$3.00 to insure their return.

Each bid must be accompanied by a certified check for \$1,000.

The City reserves the right to reject any and all bids.

Witness my hand and seal of the City of St. Cloud, Minnesota, this 19th day of March, A. D., 1915.

(Seal.) GEO. G. MAGNUSON,  
City Clerk.

## SPECIFY THE MUSHROOM FLOOR HARDENER



on your next job and you will secure the best finished floor obtainable.

The accompanying cut shows the Mushroom Floor Hardener being applied in a freight shed for the Southern Pacific Railway at New Orleans, La.

We have already received repeat orders from the Southern Pacific Railway Co. Does this mean anything to you?

Let us tell you more about our product.

# C. A. P. TURNER

6th FLOOR JEWELERS EXCHANGE  
MINNEAPOLIS, - - MINNESOTA



# AMERICAN BRIDGE COMPANY

**B**UILDERS of steel structures of all kinds, including mining and manufacturing buildings, power plants, towers and tanks, bridges and viaducts, turntables for locomotives and automobiles, roofs, trusses, girders and steel frames for business buildings.

Stock carried at Minneapolis includes a large supply of structural steel, consisting of beams, channels, angles and plates. Orders requiring quick delivery can be filled promptly.

Estimates will be gladly furnished and all inquiries will receive careful attention.

Office and Works 7th Ave. and 2nd St. S. E., Minneapolis, Minn.

Duluth Office  
Wolvin Bldg.

## The Youngstown Iron & Steel Co.

YOUNGSTOWN, OHIO

MANUFACTURERS OF

Expanded Metal for Concrete Reinforcement  
Expanded Metal Lath for Plastering Purposes

Metal Studding, Furring Strips, Etc.  
for Use with Expanded Metal Lath.

"Mahoning" Brand Expanded Metal  
In Gauges No. 7 to 12 Inclusive.

"Youngstown" Brand Expanded Metal  
In Gauges Nos. 7 to 20 Inclusive.

SEND FOR CATALOGUE

## Landers-Morrison-Christenson Co.

Agents for Minnesota and North and South Dakota

Lumber Exchange Building, Minneapolis, Minn.



## Ornamental and Plain Plastering

We are doing finest work on many large buildings. It will be an advantage to have us do yours. Get in touch with us today.

## BRIOSCHI-MINUTI CO.

246 West 3rd St.

ST. PAUL, MINN.



Water Works  
Plants, Water  
Towers, Stand  
Pipes, Structural  
Steel, Bridges,  
Fire Escapes,  
Road Drags, etc

## Des Moines Bridge & Iron Works

927 Tuttle St.  
DES MOINES, IOWA

## ST. PAUL FOUNDRY COMPANY

Designers and Builders of

## STEEL STRUCTURES

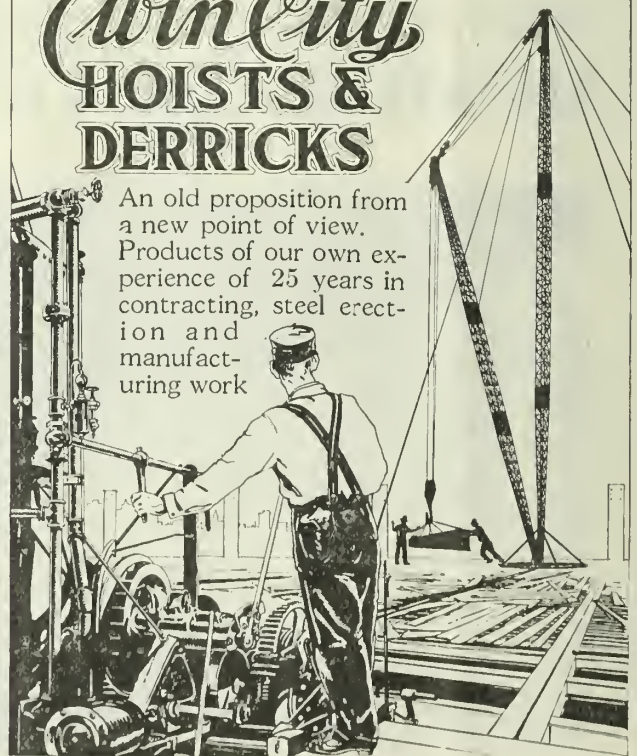
BRIDGES, COLUMNS, TRUSSES,  
MILL BUILDINGS, GIRDERS,  
TOWERS, TANKS, BEAMS,  
ARCHITECTURAL CAST IRON  
ORNAMENTAL IRON

OFFICES AND WORKS  
Como Av. and Mackubin St.

St. Paul, Minn.

## Twin City HOISTS & DERRICKS

An old proposition from  
a new point of view.  
Products of our own ex-  
perience of 25 years in  
contracting, steel erect-  
ion and  
manufact-  
uring work



Steam, Electric and Gasoline. Our catalog may be worth money to you

## Minneapolis Steel & Machinery Co.

286 3 Minnehaha Ave.

Minneapolis, Minn.



## WATER MAIN EXTENSIONS.

Lemmon, S. D.

Sealed bids will be received at the City Auditor's office, Lemmon, S. D., up to 2 p. m., April 21st, for the construction of about 9,000 feet of water main extensions, together with all materials, labor, tools, equipment, etc., all according to plans and specifications as prepared by Charles L. Pillsbury Company, Engineers, Metropolitan Life Building, Minneapolis.

A deposit of \$5.00 is required, which will be refunded upon return of plans and specifications.

Plans are on file at the Builders' Exchange of Minneapolis and St. Paul, also

the City Auditor's office, Lemmon, S. D.

Bids must be accompanied by a certified check in the sum of 10 per cent of bid payable to the City Auditor and to be forfeited to the city in case the successful bidder fails to enter into contract and furnish satisfactory bond within ten days after the acceptance of his bid.

The Board of Commissioners of Lemmon, S. D., reserves the right to reject any or all bids.

Bids to be sealed and marked "Proposals for Water Main Extensions" and addressed to City Auditor. Bids will be received on labor and material separately and combined. Propositions to accept the city's bonds in payment for labor and

material will be considered, as well as cash payments.

By Order of the Board of Commissioners.

Lemmon, S. D., March 30, 1915.

ELMER F. SHEETS, City Auditor.

(Continued on page 29.)

## FOR SALE AT A BARGAIN.

One 300-H. P. Twin City Cross Compound Corliss Girder Frame Engine, 16x30x36; belt-driven Jet Condenser; one 200-K. W., two-phase, 2,300-volt General Electric Belt Driven Generator. Apply for information, price, etc., to Wm. Todd, Superintendent Water and Light Plant, Austin, Minn.

## MINNEAPOLIS.—Cont'd.

A 1-story, brick dormitory will be built at Stanley Hall, 2114 Baisdell, after fire; cost, \$4,000.

A 1-story brick building will be built at 319 Hennepin by Minneapolis Brewing Co., after hotel fire; \$3,500.

\*Minneapolis Heat Regulator Co., 2427 4th av. S., will add one story to factory; brick, concrete; \$10,000.

## ST. PAUL, MINN.

404 Scandinavian American Bank Building.

Phone: N. W. Cedar 1683.

Mail or telephone news not later than Wednesday.

## Building Permits.

Wm. Fogarty, 981 E. Minnehaha, 1½-story frame dwl., Carroll near Asbury; Val. Gersbach, builder.....	2,100
Alfred Sillman, 813 University, builder, 1-story frame dwl., University near Avon.....	1,200
S. E. Bingham, 87 W. 6th st., 1-story brick and concrete garage, Grand near Avon; General Cons. Co., builder....	18,000
J. W. Eichman, 782 Marshall, 1½-story frame dwl., Marshall near Victoria; Arthur Godbout, builder.....	2,500
Catherine Welch, 350 Parnell, alterations and repairs and new foundation, 112 Robie; W. H. Earner, builder.....	2,000
Adolph Saur, 1½-story brick veneer dwl., Marshall near Dale; H. A. Kregel, builder.....	4,000
C. H. and C. W. Jeffery, 2-story frame dwl., Lexington near Blair; John L. Wilson, builder.....	6,500
Alex Polanek (health office, court house), 1½-story frame dwl., Warwick near Grace; John E. Wilson, builder.....	2,750
Sperry Realty Co., 1-story alteration to public garage, Selby near Kent; C. H. Froberg, builder.....	1,650
Albert Laduck, 1-story frame dwl., Duluth near Fauquier; E. M. Nelson, builder.....	1,000
John Lundquist, 1007 Linwood place, builder, 2-story, frame and stucco dwl., Fairmont near Oxford.....	3,800
Alfred Backer, 401 Michigan, 1½-story frame dwl., Watson near Victoria; John Trenter, builder.....	1,500
Wm. Delastrada, 824 Jenks, 2-story brick and tile store and apartment, Arcade near Jenks; Stan A. Lukieski, builder.....	5,600
Wm. P. Daley, 689 E. 4th, 2-story frame dwl., 245 Maria; Victor Linder, builder.....	3,500
Anna Klieber, 1½-story frame dwl., Lawson near Forest; Home Bldg. Co., builders.....	2,500
P. Axcness, 559 Lawson, 1½-story frame dwl., Hawthorne near Earl.....	3,200
Axel H. Carlson, 1113 Edgerton, 1-story frame dwl., 5th near Earl; Home Bldg. Co., builders.....	1,600
Albert J. Bugert, 875 Marion, builder, 2-story frame dwl., Aurora near St. Albans.....	3,500
W. S. Stahl and H. H. Comstock, 1811 Goodrich, builders, 1-story frame dwl., Lincoln near Cleveland.....	3,100
Wm. J. McCannan, 785 Cathedral pl., 1½-story frame dwl., Burgess near Dale.....	1,100
Raths Seavolt Film Mfg. Co., 447 Wabasha, 1-story brick and concrete studio, 821 University av.; John Moline, builder.....	5,000
Philip C. Justus, alterations and repairs to 4-story brick store and warehouse, 180 W. 4th; Geo. T. Becker, builder.....	3,500
T. D. McNulty, 404 Scandinavian American Bank bldg., builder, 1-story frame dwl., Grand near Lexington.....	1,350
T. D. McNulty, builder, 1-story frame dwl., Edmund near Dunlap.....	1,200
H. C. Wenker, 1216 Matilda, builder, 1½-story frame dwl., Matilda near Maryland.....	2,000
Charles Blyme, 2-story frame dwl., Robert near Curtice; Henry Ott, builder.....	2,700
Palmer & Peterson, care Borg & Co., 404 Endicott, 2-story brick veneer flats, Portland near Saratoga; Anton Palmer, builder.....	8,500
Fred Fischer, 1086 Hazzard, builder, 1-story frame dwl., Western near Cook.....	1,000
John A. Fyten, 1087 Randolph, 1½-story frame dwl., Randolph near Lexington; Arthur A. Wilding, builder.....	1,800
Ernest Edberg, 1763 Brand, 1-story frame dwl., Brand near Flaudreu; Frank Edberg, builder.....	1,300
A. H. Sonnen, 232 Sherburne av., alterations and repairs to frame dwl., 232 Sherburne.....	1,000

Hartford & Hausler, architect, Pioneer building, will have plans ready April 10, for a modern residence, Iglehart and Finn, for G. N. Burg; 28x46, 2-story and attic, concrete and

stucco, asphalt slate shingles, vapor heat, tile baths, built-in tubs, linoleum kitchen floor, gumwood finish, sleeping porch, sun-porches, brick and tile mantel, sideboard, wainscoting, tile porch floors, leaded glass, French doors, Majestic coal chute; architects let work; garage.

J. W. Butler Bro. & Co. general contractors, Scandinavian American Bank building, began razing old building, 7th and Robert, for addition to Emporium; Buechner & Orth, architects; sub-contracts let: N. W. Fireproof Co., flat arch work; Roe-James, glass; Gribben, millwork; Corr-Bar Co., T. F. McCormick, representative, reinforcing; Drake Marble & Tile Co., terrazzo floors and marble.

E. J. Donohue, architect, Gilfillan block, has furnished plans, owner will take figures, for parochial school, St. Patrick parish, Monona, Iowa, Rev. M. J. Hogan, pastor; 32x72, 3-story, brick, concrete foundation, Pottsville stone, joint construction steam heat, slate blackboards, oak finish, maple floors, patent plaster, composition roof, modern, steel beams, columns; heating and plumbing let later.

Hartford & Hausler, architects, Pioneer building, have completed plans for a modern residence, Osceola between Chatsworth and Milton, owner's name withheld; tile foundation, stucco, modern, asphalt slate shingles, brick and tile fireplace, French doors, casement windows, cement flower vases, sleeping and sun-porch, clothes chute, hot water heat.

H. E. Erickson, architect, American National Bank building, has furnished plans for a store and 3-apartment building, Chatsworth and University, for the Warrendale Grocery Co.; contract for all work let to Jos. Vanouskos, 1091 Colne st.; modern, steam heat, metal front, plate glass, leaded glass, 3 baths, trays, tile, Security roofing, metal ceiling; birch and fir trim.

A business building to cost \$175,000 is planned for 6th and Jackson, east of the N. W. Electrical Equipment Co., Geo. H. Hurd Realty Co., owners of land; H. P. Keller, former mayor, rep., Thompson property affected.

State Board of Control will take bids soon on the sanatorium at Bemidji; plans ready; plans for the sanatorium at Moorhead, for Becker and Clay counties, held up for changes.

Buechner & Orth, architects, Shubert building, have plans out and are taking figures, no date set, on addition to Mounds Park sanitarium, St. Paul; 3-story brick, modern; architects let all work.

H. A. Miller, architect, Pittsburgh building, has plans ready for the church on Earl at Minnehaha, of the English Lutheran congregation of Our Saviour; brick and stucco, 36x80, tower, finished base, with kitchen and assembly room, vapor heat.

A new courthouse is the object of a new move started by the Ramsey County Bar Association, committee on the matter to be named soon; W. D. Mitchell, president, 624 Endicott building.

Silas Jacobson, architect, Capital Bank building, reports contract let to M. J. Grady Fixture Co., Minneapolis, for light fixtures, Sacred Heart hospital, Yankton, S. D.; decoration bids in.

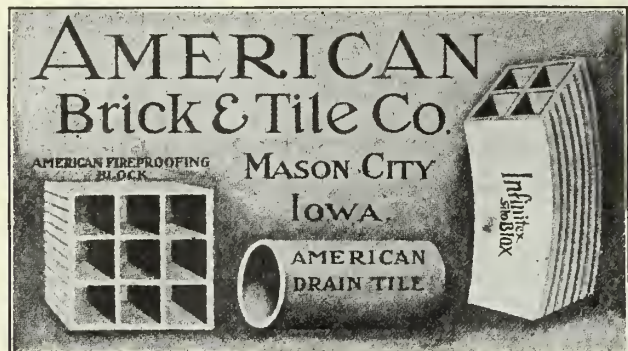
Hartford & Hausler, architects, Pioneer building, have completed plans for improvements in residence of R. M. Neely, Crocus Hill, sun-porch, brick and stucco, glass roof, leaded glass sidelights, quarry tile floors.

Mark Fitzpatrick, architect, 19 W. 9th, has let contract to John R. Schmit, 429 N. Dale, for summer home, Johanna Lake, of Wm. Bannon, frame, plumbing, fireplace, laundry trays.

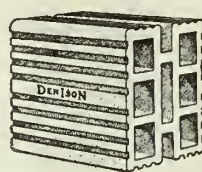
H. A. Miller, architect, Pittsburgh building, is preparing plans for a store and flat for John Olson; address architect; 2-story brick veneer, hot water heat, modern, steel ceiling.

H. A. Miller, architect, Pittsburgh building, has furnished





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plans for remodeling residence of G. Paulson, Clear Lake, Wis.; frame, hot water heating plant, 2-story day labor.

Bids on the St. Paul's Lutheran Church, Osseo, Minn., are in and under advisement; H. A. Miller, architect, Pittsburgh building.

A 2-story flat building, with store will be built by Wm. Delaystrada on Arcade between Jenks and Dawson, 2-story, brick and tile; \$5,600.

A. F. Gauger, architect, Scandinavian American Bank building has awarded general contract on E. W. LaGow residence Sleepy Eye, Minn., to J. L. Hoy, Mankato.

City commission favors ordinance to require short line railroad in city limits, to be operated by electricity; Oscar Keller, commissioner.

South St. Paul masons are considering construction of a lodge building.

S. E. Bingham will build a garage on Grand between Avon and Victoria; brick, concrete, modern; \$18,000.

Plans for the Carnegie branch libraries are to be sent east this week instead of last week, for Carnegie approval.

St. Paul Athletic Club will act soon on razing old Union block on site of new building; Oscar L. Taylor, president.

\*Legislature will probably pass bill for improving old capitol; cost, \$6,500; bill passed house.

## MILWAUKEE, WIS.

Office: Hathaway Building; Telephone Main 1827.  
Mails news to Minneapolis office not later than Wednesday.

Robt. A. Messmer & Bro., architect, Majestic building, awarded following contracts on \$12,500 residence for Wm. A. Gettelman, on Hi-Mount blvd., near Vine st.; mason, A. W. Riesen & Bro.; cut stone, Erdman Meyer; plumbing, L. P. Schmitt; heating, Grassler Gezelschap; electrical, Krech-Garwood.

Leenhouts & Guthrie, architects, 424 Jefferson st., are revising plans and will take bids after April 7, on a residence for John Horter at Bellevue pl. and Lake Drive; brick and cement veneer, 2 1-2-story, 31x48, hot water heating; cost \$12,000.

Gustav A. Dick, 811 State st., architect, will take bids after April 10 for the erection of a \$15,000-\$17,000 residence for Mrs. Emma G. Steinmann on Hi-Mount blvd., near Washington boul.; brick veneer, 2-story, 33x60, vapor heating; previously noted.

Piepkorn-Henning Electric Co., Milwaukee, received the contract for all electrical work on new postoffice building at Holland, Mich., from George W. Stiles Construction Co., Chicago. The same firm is completing electrical work on post-offices at Cambridge, O., and Mishawaka, Ind.

Riesen Brothers, 53 University building, received the mason contract and C. A. Winnemann the concrete and cement contract on a 6-apartment house to be erected for E. O. Olson on Stowell av., near Park pl.; A. E. Swager, architect.

The South Side Roofing Co., 253 Reed st., was awarded the contract for roofing for the new Plymouth Congregational church building, costing \$125,000, at Summit and Concord avs.; Huebbe Construction Co., general contractor.

John Paulu, Jr., architect, is preparing plans for a residence for himself in St. Francis, Milwaukee county, to replace structure destroyed by fire recently; brick veneer, 31x62, with hot water heat and costing about \$12,000.

Henry G. Lotter, 304 West Water st., is preparing plans for a store and flat building on Holton st., near Center st., owner's name withheld; brick veneer and stucco, 2-story, 25x57; steam heating.

J. Bach & Co. will build a triple store building on Muskego av. near Grant st., according to plans by George A. Kemnitz, architect, 87 Howell av.; solid brick, 1-story and basement, 56x55.

The board of park commissioners, Milwaukee, closes bids April 5, for furnishing and erecting the wrought iron work on new bear cages and dens in Washington park zoological gardens; bond for \$450; Frank P. Schumacher, secretary.

The Badger Architects, 629 Walnut st., will take bids until March 27, for the erection of a frame and brick duplex for N. B. Sangor at Frederick av. and Kenwood boul.; estimated cost, \$7,500.

Gustav A. Dick, architect, 811 State st., is making plans for a single store and quadruple apartment building for John L. Wood on Vliet st., near 12th st.; reinforced concrete, brick, tile and steel, 25x105, 3-story and basement.

Bernhard Platz has the carpenter contract and John Christle the heating contract on remodeling of residence of Mrs. Treumann, 40th and Galena sts., into a duplex; Leiser & Holst, Germania building, architects.

Minehan & Jacobus have the general contract for the erection of a \$7,500 residence and garage for J. J. Stamm at 7th av. and Lake st., city of Wauwatosa; Clare C. Hosmer, architect.

Robert Schmitz, architect, is taking bids on a frame duplex costing \$4,500 for J. Bliffert on Humboldt av. near Chamber st. The same architect closes bids Saturday on a residence and garage for J. H. Hussman at 745 51st st., costing \$5,500.

Stanley F. Kadow, architect, 988 Kinnickinnic av., closes bids Saturday, March 27, for a tank house addition for the Clear Ice Co., foot of Clinton sts.; concrete and brick, 28x80; previously noted.

Hugo Miller, architect, 809 M. & M. Bank, is taking bids on a frame and plaster duplex for D. T. Mulholland on Clarke st., near 12th st.; cost \$6,000.

Kamschulte & Webster, architects, 416 M. & M. Bank, are revising plans for a \$5,000 frame duplex for S. H. Pfander on 25th av., near National av.

Charles W. Valentine, architect, 428 Jefferson st., closes bids April 3 for the erection of a \$60,000 residence and garage for F. L. Weyenberg on Lake Drive, near Lake Bluff; previously noted; solid brick and stone, with vapor heating.

George Zagel, architect, 629 Walnut st. will take bids after April 3 for a 4-family house for I. Wasserman; original plans for a duplex; dimensions, 20x66; furnace heating.

H. W. Voeltz, architect, 504 11th st., closes bids April 5, on a store and flat building, costing \$11,000 on Mitchell st., near 16th av.; solid brick, 2-story, 29x98.

The mason contract on the \$15,000 residence for Michael Rolfe in East Milwaukee was awarded to Charles Huebbe, by C. W. Valentine, architect.

J. Guschel, builder, 731 45th st., will build a frame duplex costing \$6,500 at 29th and Locust sts.; the mason work has been let to Richard Hoeppner.

Wm. Hohls awarded the general contract to Charles Leberg, 942 7th st., on frame duplex costing \$4,000 at No. Pierce and Wright sts.

## ELEVATORS

Mont., Circle—Pioneer Farmers' Club will erect a grain elevator.

Mont., Ingomar—Musselshell Valley Grain Co. will erect an elevator soon.

Mont., Roundup—Roundup Elevator Co. will erect a modern elevator soon.

## PARKS AND CEMETERIES

Mont., Miles City—A site has been selected for a memorial park, contains 8 acres, cost about \$1,000.

Mont., Roundup—A new cemetery ground is being surveyed above old Roundup, by M. M. Klein.

## MISCELLANEOUS

Iowa, Ft. Madison—A greenhouse will be built at the prison; Fred Wall in charge.

Iowa, Independence—Bland & Stenmetz will build a large greenhouse at once.

Minn., Nashwauk—Bids received for next two weeks by Butler Brothers, contractors, N. Y. Life building, St. Paul, for 200 tons steel for mining building, Nashwauk.

Wis., Manitowoc—The Graham & Morton Line, Chicago, has awarded contract for rebuilding steel passenger steamer, City of Chicago, to the Manitowoc Shipbuilding & Drydock Co., Manitowoc, Wis.; \$150,000.

## FIRE APPARATUS

\*Minn., Chisholm—George Nitch was elected fire chief of the fire department.

\*Mont., Whitefish—The Whitefish volunteer fire department elected Randall Shoaf and E. W. Collins, president of department.

\*Wis., Conrath—Plans are being made for incorporation of Conrath.



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Building permits: B. J. Cook, dwelling on the north side of Woodland av., between Niagara and Manitoba sts., \$7,600; Fred Edwards, frame dwelling on the east side of 11th av. E., between 9th and 10th sts., \$2,000; Alexander Wierzbicki, frame dwelling on the south side of Toledo st., between Meyers and Weber avs., \$1,000; Henry Gabbert, frame dwelling on the west side of 3d av. E. between 5th and 6th sts., \$5,000; Sidney Morterud, frame dwelling on the south side of Howell st., between Lake View drive and Vermillion sts., \$3,000; John M. Carlson, frame dwelling on the east side of Vermillion road between Kennilworth and Mygatt avs., \$5,000; J. S. Lutes, addition to garage and dwelling on the north side of 6th, between 26th and 27th av. W., \$1,500; St. Paul's Episcopal Church, frame dwelling on the east side of Central av., between Elinor and 6th sts., \$3,000; Jeanette Zimmerman, frame dwelling on the east side of Howell av., off Princeton av., \$6,000.

\*J. J. Wagenstein, architect, Providence building, will have plans complete and ready for figuring by the middle of the week for a 3-story reinforced concrete store to be erected next to the Grand theater, W. Superior st.; Cook & Gilleson, owners; plans will be at the Exchange as soon as completed.

\*The bids for the Lincoln school were taken Tuesday, Mar. 30, at the board of education of the city of Duluth. The bids were as follows: Jacobson Brothers, low on general contractors, \$92,500; heating and ventilating, American Heating Co., low at \$16,050; electric, F. O. Peterson, low at \$1,240; plumbing, E. S. Farrell, low at \$4,888.

Holmstead & Sullivan, architects, Palladio building, have completed plans for a 2-story frame and stucco residence at 28th av. E. and 6th st. to cost about \$2,000; N. H. Gellispe, owner.

Bids are being called for by the city for a concrete reservoir to be built on Minneapolis av., between Anoka and Mankato sts., Woodland; cost estimated about \$14,000.

## PUBLIC BUILDINGS

Iowa, Des Moines—Following were bidders for the extension and repairs to the Des Moines public building: J. C. Mardis Co., Des Moines, \$36,900; William Knudson & Son, Des Moines, \$35,350; Charles Wertz & Sons, Des Moines, \$35,750; Grohne Construction Co., Joliet, Ill., \$32,400; Newport Construction Co., Newport News, Va., \$36,626; James Maine & Son Co. Des Moines, \$53,975; J. E. Tusant Son & Co., Des Moines, \$43,150; Frank H. Latimer & Son, Kansas City, Mo., \$36,688; A. H. Neumann & Co., Des Moines, \$37,524; Frank N. Weakley Canton, O., \$40,914 and Hanson Maneese, Des Moines, \$39,955.

Iowa, Greenfield—City will vote on public library proposition April 15; W. C. Smith, city clerk.

Iowa, Primghar—Plans ready about April 10, for court house; 77x116, 3-story and basement, \$150,000; J. B. Stamp, auditor of O'Brien county.

Iowa, Vinton—Plans will be started soon for county home to cost \$30,000, 3-story and basement; W. E. Gilchrist, county auditor.

Minn., Belle Plaine—County board may build larger county home to replace building burned; decision waits on insurance.

Mont., Butte—Librarian Davis has been instructed to ask the Carnegie Library Foundation for \$300,000 for a main library building.

Neb., Friend—Plans ready about April 5, for library building; 27x60, 1-story and basement, \$7,500; C. W. Bouldy, mayor.

Neb., Gordon—New city building is being discussed; address city clerk.

Neb., Norfolk—Andrew G. Nelson, custodian, has recommended that the Grohne Contracting Co., Joliet, Ill., be given the contract for changes on the first floor of the U. S. post office at \$1,894; other bidders were: J. P. Sullivan, 4515 Indiana av., Chicago, Ill., at \$1,939; W. E. Orr, city, at \$2,162; W. J. Creedon Co. city, \$3289.

N. D., Cando—City will probably hold an election to vote on bonds for a city hall; address city clerk.

N. D., Fordville—Proposition to build city mail, fire station and jail carried; address city clerk.

S. D., Esmond—Reported a new post office building will be built here; address the mayor.

Wash., Everett—Olson & Johnson, Missoula, Mont., lowest

bidders for proposed public building, at \$105,000.

Wis., Portage—Architect will reduce plans for proposed poor house and new bids will be asked; appropriation for same, including heat and ventilation, is but \$45,000, and lowest bid recently was \$11,000 above this; all had to be rejected; Allen D. Conover, architect, Madison, Wis.; John Scott, chairman, building committee, care county clerk.

Wis., Tomah—City council has formally accepted plans for Carnegie library and \$10,000 will be received for the building; address city clerk.

### BIDS WANTED.

Mont., Havre—Reported that bids will be opened by the county clerk on April 10 for the court house building.

N. D., Hillsboro—Bids received by Nels O. Lindaas, county auditor, until 10 a. m., April 7, for concrete floor in jail basement, steps and stairs.

N. D., Steele—Bids received by J. C. McWhinney, county auditor, until 3 p. m., April 9, for alterations and additions to court house; check for 5 per cent.

Wash., Neah Bay—Bids received by U. S. department of agriculture, Washington, D. C., until April 27, for a 2-story, frame cottage, for the weather bureau.

Wash., Walla Walla—County commissioners will probably set May 5 as the date for opening bids for the court house; address county clerk.

Wis. Ashland—New bids will be taken on the vacuum cleaning system for the new Ashland county court house; Henry Wildhagen, architect, city.

Wis., Marion—Bids received by F. S. Lindow, president of the village, until 5 p. m., April 26, for construction of village hall; plans by H. T. Liebert, architect, Wausau, Wis.; check for \$500; plans on deposit of \$19.

Wis., Sheboygan—Bids received by Henry F. Nagel, chairman, committee on public property, until 2 p. m., April 14, for repainting of the exterior of the court house; check for \$200.

Wyo., Douglas—Bids received by J. C. Amspoker, county clerk, until 10 a. m., April 20, for the construction of a court house building; plans by Wm. N. Bowman, architect, Denver, Colo.; check for 5 per cent; 3-story, brick, 60x60, \$40,000.

### CONTRACTS AWARDED.

Minn., Graceville—General contract to Standard Construction Co., Plymouth building, Minneapolis, for library building.

Minn., Onamia—Henry Goulet, new postmaster, will erect a brick building for the post office, 20x35; contract to Robert Swenson, city.

Minn., St. Cloud—Contract to Nicholas Zimken for painting and decorating court room at \$168.

Mont., Malta—Contract to Delaney of Havre for the Varney block, to be used for a city hall, court room and county jail; cost about \$14,000.

S. D., Albee—Contract has been made by town board for erection of a town hall building, to cost about \$4,000.

Wis., Racine—Contract to Andrew Koppel, city, for \$175,000 Y. M. C. A. building; masonry to Seater & Seater, city.

## HOTELS AND HOSPITALS

Ida., Pocatello—Managers county and city hospital will build nurses' cottage to cost \$2,500.

Iowa, Sioux City—Bids rejected and plans being revised for Woodbury county hospital; Wm. L. Steele, architect, United Bank building; 2-story and basement, \$15,000; E. E. Hosmer, county auditor.

Mont., Miles City—Measures progressing for proposed hospital annex; plans have been accepted for a building, 70x80, 2-story and basement pressed brick, 19 private rooms; address secretary, Chamber of Commerce; B. Rivenes, architect, city.

Minn., Tower—Vermillion hotel burned at loss of \$30,000.

Neb., Columbus—C. H. Sheldon will donate \$50,000 for a hospital if a like amount is raised from other sources; address the mayor.

Neb., Fremont—Options secured on site and architect's plans nearly completed for proposed hotel; address secretary, commercial club.

Neb., Liberty—Preliminary steps taken by the Community club for the erection of a \$5,000 hotel; address C. F. Kinney for information.

Neb., Omaha—Reported bids will be received by Jas. Allan, architect, Brandeis, theater building, city, until April 15, for a hospital building; 65x105, 4-story, common and pressed brick.

Wis., Danbury—Geo. Clendenning will build an addition to his hotel.



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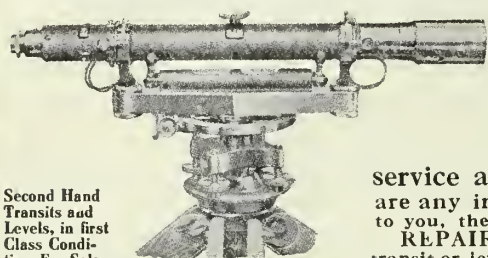
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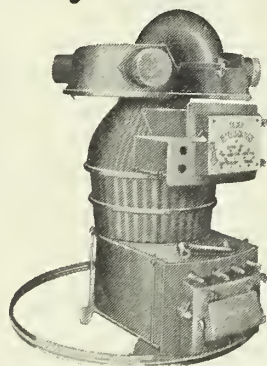
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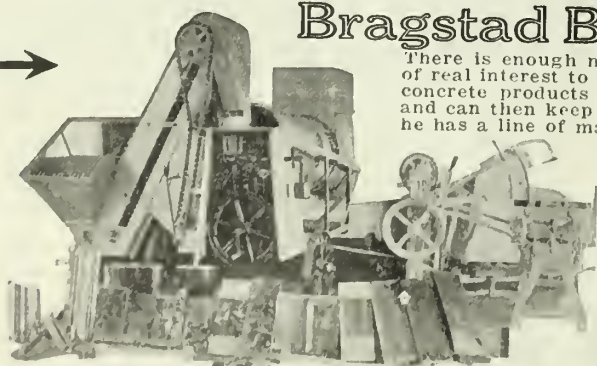
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**Wis., Jefferson**—Blue prints have been received of plans for a 3-story addition to the St. Colletta home for feeble-minded, to cost \$50,000.

**Wis., Kenosha**—Bids will be taken about April 1, on tuberculosis sanitarium for Kenosha county; plans about completed, 2-story and basement, \$22,000; Jos. Lindl, architect, city; W. K. Upson, chairman, Bristol county board.

**Wis., La Crosse**—Architects from Chicago recently taking measurements and making preliminary estimates for addition to Stoddard hotel; C. W. Baker, owner.

**Wis., Superior**—Hotel Superior damaged by fire to amount of \$20,000.

**Wis., Union Grove**—McFarlane house destroyed by fire; loss between \$6,000 and \$8,000; insured for \$3,000; H. P. Hanson, owner.

**Wis., Union Grove**—Efforts being made to induce Nelson Brothers of Racine, to build and manage a hotel to replace the one recently burned.

#### BIDS WANTED.

**Wis., Eau Claire**—Bids received by Nan MacLeod, secretary, board of trustees, of Mt. Washington sanitarium, until April 15, for an addition to the sanitarium; plans on file with John H. Nygard, county clerk.

**Wis., Milwaukee**—Announced that J. C. Finney, superintendent, will advertise for bids for the second wing to the isolation hospital, to cost \$100,000.

#### CONTRACTS AWARDED.

**Neb., Hastings**—Contract to Hastings Foundry Co. for installation of an electrolier system at the Ingleside hospital for the insane at Hastings; there will be 40 ornamental posts costing \$25 each.

**Wis., Menomonie**—Contract to John Seline for the remodeling of the Charles house.

## GARAGES AND BARNs

**Iowa, Oelwein**—Aug. Maurer, architect of Beloit, Wis., has completed plans for modern dairy barn for J. G. Smith, round, 85 feet in diameter, 26x60, with silo in center, equipped with milking machines and electric lights.

**Minn., Cook**—W. H. Schimmel will build a modern livery and garage, 60x100, 2-story.

**Minn., Lewistown**—Wm. Duane will erect a large modern barn.

**Minn., Mankato**—Fritz Knobs will build modern barn this spring; also E. L. Dronberg, barn and silo.

**Minn., St. Paul**—Application has been made by the Central Automobile Co. for erection of a brick and concrete garage; cost about \$15,000.

**Neb., Hickman**—The Hickman Auto Co. plans erection of garage soon.

**Neb., Plattsmouth**—Robt. L. Probst will erect modern garage, 88x140.

**S. D., Canton**—Heckmaster & Reynolds will erect new modern garage, 44x130, 2-story, concrete.

**Wis., Delavan**—Wm. G. DeGroff & Son L. W., will build modern garage, to be known as William Bay Motor Co.

**Wis., Washburn**—Wm. Hammond will erect a modern concrete basement barn, 36x84; H. P. Peacey will also erect a concrete barn, concrete basement and floors and a sheep shed, 40x100.

#### CONTRACTS AWARDED.

**Iowa, Waverly**—Contract for the Moeller Brothers' garage at Readlyn, Iowa, was awarded to A. H. Bobeker, Readlyn, Iowa, at \$3,943; other bids were: G. L. Smith, \$4,586; C. J. Burke, \$4,629; M. Blitsch, \$4,949; C. H. Leitha, \$4,717; J. F. Leitha, architect.

**Minn., Alexander**—Contract not awarded on garage building; Wm. Hendrickson.

**Mont., Billings**—Geo. W. Sturm of the firm of Sturm & Drake, will erect a modern stock sales barn, cost \$3,000, 150x140, concrete; J. H. McElroy, contractor.

## CHURCHES

**Iowa, Des Moines**—Highland Park congregation will erect church; cost \$30,000; 127x150.

**Iowa, Solon**—St. Mary's parish is to erect a modern hall; cost \$15,000.

**Iowa, Sanborn**—L. Von Wyk and J. Huilbregtse, are raising funds for Reform church here.

**Minn., Alexandria**—Swedish Lutheran Augustana Synod of

Red River Valley will build a \$20,000 home for the aged.

**Minn., Angora**—Work will commence soon on church for Norwegian Lutheran congregation; frame, cost \$21,600.

**Minn., Red Wing**—Norwegian Lutheran congregation will erect modern edifice soon, at Rescoe Center; bids received until April 15, 1 p. m., at Security State Bank.

**N. D., Devils Lake**—Church will be erected here by Presbyterians, F. P. Mann, Jacob Halliday and Henry Hale, building committee.

**S. D., Aberdeen**—First Church of Christ Scientist is advertising for bids on new edifice, cost \$25,000.

**Wis., Albertville**—Congregation of Norwegian Lutheran church will build, contract to Sorenson & Clevon, of Elk Mound, Wis., at \$7,174.

**Wis., Seymour**—G. H. Fleck, De Pere, Wis., is low on general for German Lutheran church; will probably get contract, 47x110, face brick and cut stone.

#### CONTRACTS AWARDED.

**N. D., Valley City**—Contract awarded to W. J. Curran, Valley City, for Congregational church, at \$32,500; plumbing, heating, etc., let to the Valley City Plumbing & Heating Co., at \$5,210.

**Wis., Marinette**—Contract awarded to R. B. Adams for German Baptist church at Gillett; cost about \$2,500, begin soon.

**Wis., Neenah**—Contract for new English Lutheran Church has been let to Guenther & Koryer, of Oshkosh, and Carl T. Lang of Appleton; cost about \$18,000.

**Wis., Seymour**—Contract awarded to G. H. Fleck, De Pere, Wis., at \$18,003 for Immanuel Lutheran church; other bids were: Polley & Co., Shiocton, at \$19,987; Mielke & Co., Appleton, \$21,950; Hoffman Construction Co., Appleton \$18,182; Greinki, Appleton, \$21,900; Patterson & Kull, Clintonville, Wis., \$19,400; Hegner Construction Co., Appleton, \$20,555; Spriester, Appleton, \$21,063; Appleton Construction Co., Appleton, \$20,975; Geniesse Co., Green Bay, \$21,252.

## ELECTRICAL

**B. C., Prince Rupert**—Nanaimo Electric Light, Power & Heating Co., incorporated, capital \$50,000; may build a light and power plant here.

**Iowa, Fort Dodge**—Ground will be broken within a few weeks for construction of a new building for the Ft. Dodge interurban line; cost \$50,000; 3-story, brick.

**Iowa, Iowa City**—Citizens of city and Muscatine, are planning interurban line to Iowa City, A. D. Bowen of San Francisco, railway builder, interested.

**Iowa, Keokuk**—Extensive improvements will be made in Keokuk Electric Co.'s plant; six-foot watergas set installed; contract awarded to Stone-Webster Engineering Corporation of Boston.

**Iowa, Spillville**—Franchise granted to Robt. Klemish, for electric light plant here.

**Kans., Herrington**—City may install a municipal electric light plant, directly connected unit, consisting of high efficiency compound engine and 250-kva, 3-phase, 60-cycle, 2,300-volt generator with exciter. E. J. Wolcott, superintendent.

**Mich., Calumet**—Michigan State Telephone Co. plans remodeling of its exchange building. A. Von Schlegell, general manager.

**Minn., Albert Lea**—The Brite Light Co. will erect a modern building, 80x140, with wing, 32x50; brick, fireproof; work to begin soon.

**Minn., Clarissa**—Issue of bonds to amount of \$5,000 was authorized by voters of village for electric light system.

**Minn., Eveleth**—Telephones will be installed by the Morrison Road Rural Telephone Co., early in summer; Herman Holm, president.

**Minn., Hibbing**—Contract awarded to the Northern Heating & Plumbing Co. to install the plumbing in the new telephone building erected by the N. W. Telephone Co.

**Minn., Sherburne**—Contract awarded to the Electric & Supply Co., of Mankato, for electrical wiring and supplies for county poorhouse; H. C. Nolte, county auditor.

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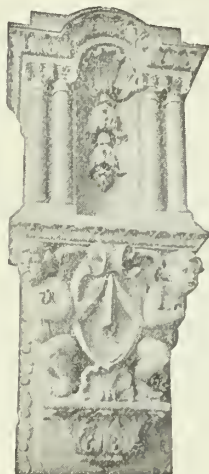
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AUG. R. NORMAN,

County Auditor, Carlton, Minn.

Dated, March 12, 1915.

**NOTICE TO CONTRACTORS.**

School, Petersburg, Minn.

Sealed proposals will be received by the Board of Education, Consolidated Districts No. 4, Jackson County, Petersburg, Minnesota, up to 1 o'clock P. M., April 15, 1915, at Petersburg, for the erection of a four-room brick school building.

All bids to be addressed to the Clerk. Bids for the erection and completion of the school building, also installation of the Heating, Plumbing and Ventilation according to plans and specifications prepared by Kirby T. Snyder, Architect, 634 Plymouth Building, Minneapolis, Minn. Plans may be viewed at the office of the Architect and at the office of the Clerk. Contractors wishing plans for their exclusive use until the opening of bids, may obtain same from the Architect by paying the cost of duplication. A deposit of \$25.00 on all plans taken out

of the office, same to be returned when the plans are returned to the Architect.

A certified check of 5 per cent of the bid to accompany each proposal, the board reserves the right to reject any or all bids.

Plans will also be at the office of J. B. Arp, County Supt., Jackson, Minnesota. (Signed) G. P. HOLDEN,

Esterville, Iowa, R. F. D. No. 5.

Clerk Consolidated District No. 4, Jackson County.

All contractors are requested to be present at opening of bids.

**NOTICE TO CONTRACTORS**

..... School, Minneapolis, Minn. ....

Sealed proposals will be received at the office of the Board of Education, 407 City Hall up to 1:30 p. m. Tuesday, April 13, 1915, for the erection of a grade school building in the Johnson school district, city of Minneapolis Minnesota, in accordance with plans and specifications of Stebbins & Haxby, architects, and Rose & Harris, Consulting Engineers, engineers.

Proposals for the erection of the building or for the complete installation of the mechanical plant must each be accompanied by a certified check to the amount of (5%) 5 per cent of the amount of the bid, checks to be made payable to Cavour S. Langdon, Secretary of Board

of Education. Each proposal must be marked on the outside of the envelope "Bid for the Erection (or installation of Mechanical plant) of Johnson school."

Each bidder must guarantee the execution of contract and furnish a bond for the full amount of the contract, which bond must be delivered to the Board of Education within ten days after notification that said contract has been awarded to him. Checks submitted by unsuccessful bidders will be returned after the approval of the contract and bond executed by the successful bidder.

Plans and specifications for the building may be seen at the offices of Stebbins & Haxby, Architects, Auditorium building, Minneapolis. A deposit of \$10. cash will be required on each set taken away. Cash to be refunded upon the prompt return of plans and specifications.

Plans and specifications for the Mechanical Equipment may be seen at offices of Rose & Harris, Auditorium building, Minneapolis. A deposit of \$5. cash will be required on each set taken away, cash to be refunded upon the prompt return of the set complete.

The Board of Education reserves the right to reject any or all bids.

H. N. LEIGHTON,

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HARINGTON BEARD.

Minn., Spooner—City council has petitioned railroad commissioners for dam on the Nemekagon river near Trego to furnish more power for the electric plant.

Mont., Red Lodge—Construction contemplated of 20 miles of telephone line from Simms to a point southwest of here.

Mont., Thompson Falls—The Montana Power Co. is preparing to construct a dam about 9 miles below city, to develop electrical energy there.

N. D., Bismarck—Bids will be received until April 7, 3 p. m., for electric light plant in county court house, and jail, for white way around grounds, etc.; T. E. Flaherty, auditor, Burleigh Co.; check 5 per cent.

N. D., Forbes—Village board will put in electric light plant, franchise granted to Hixon & Leet; work to begin at once.

N. D., Guelph—Electric light system will soon be installed here.

N. D., Page—Ordinance passed granting franchise to F. E. Davis, to maintain electric light system for 20 years.

N. D., Hebron—Bids received until April 15, for digging of 290 or more holes, 3 feet deep and 670 or more holes 4 feet deep, along proposed rural telephone line from Hebron into Farmers' Valley; the Farmers' Valley Telephone Co., of Hebron, takes bids; Fred Schwenk, Hebron, N. D.

N. D., New Salem—Bids received until April 10, 8 p. m., for 10½ miles of main telephone line, and 6½ miles of side lines, for the New Salem Farmers' Telephone Co., two separate bids No. 1 and No. 2, first for erecting line and latter for wiring and installing of phone, etc.; plans at office of Journal or residence of H. B. Norton, New Salem; check 5 per cent.

N. D., Williston—City plans to purchase two 500-k.w. steam turbine engines with 2,300-volt, 60-cycle generators and condensers for same for municipal electric system, in a few months' time; also 300 ornamental lamp posts. C. C. Mackenroth, superintendent.

will raise \$20,000 to build a lodge home; O. A. Rosengren, secretary.

Iowa, Seymour—Odd Fellows' contemplate building lodge home, to be 50x90; address secretary, order.

Mich., Hancock—Erection of a temple under contemplation by Masonic bodies; \$50,000; tentative plans under consideration.

Minn., Blackberry—Socialist club here is making plans for the building of a hall; address the secretary.

Minn., Crookston—Interior of Masonic temple burned, with loss of \$6,000; loss on building owned by S. A. Wallace, \$5,000.

Minn., Hibbing—The new theater building at Alice which is being built by H. A. Farnand is nearing completion; 25x80, seating for 250 people.

Minn., New Ulm—Members of the Lutheran church plan erection of club rooms; building to be 26x110; heat, bowling alleys, billiard room, etc.; Prot. Otto Montgomery, secretary.

Minn., Staples—E. E. Carlson, formerly of Marquette, Mich., has purchased the Unique theater; he will put in a new lighting system, add 50 or 100 chairs, paint the front, and make other improvements.

Minn., Tower—Odd Fellows have selected a site on Lake Vermillion for the bungalow of the Three Link club; address the secretary.

Mont., Bozeman—Plans being made for improvement of the Gem theater building; 135 seats will be added, building entirely remodeled; Fred F. Willson Co., architects.

Mont., Great Falls—Complete plans for club quarters will be drawn by Henry Hall Johnson, architect, for the entire 5th floor of the Tod building; address Geo. H. Stanton, president, Stanton Trust & Savings Bank.

Mont., Great Falls—The proposed \$100,000 Masonic temple will be the finest in the state; address the secretary.

Mont., Terry—E. H. Phillips plans construction of theater building.

N. D., Buffalo Lake—Erick Olson and others are financing proposition for a dance hall, bowling alley, etc., to be built on the north shore of the lake.

N. D., Devils Lake—Plans for a lodge building for the Elks will be made by a firm of architects at Clarksburg, W. Va.: 42x140, 3-story and basement, \$40,000; secretary of lodge No. 1216, B. P. O. E.

Ore., Seaside—B. J. Callahan will erect moving picture theater building; plans prepared, 50x100; \$6,000.

S. D., Sioux Falls—Majestic theater burned; loss \$35,000, insured for \$25,000; building owned by John Biegger.

Wis., Antigo—Frank A. Hecker, secretary of committee to promote the erection of a Y. M. C. A. building; committee of 16 appointed to have the work of promotion in charge.

Wis., Milwaukee—Leenhouts & Guthrie, architects, 424 Jefferson st., will take bids until April 5, for erection of new

**THEATRES AND HALLS**

Iowa, Clear Lake—Plans have been submitted for a Masonic temple to cost \$12,000; 2-story, brick, lodge rooms, on ground floor, large dining room above; address secretary of the order.

Iowa, Creston—Temple Grand theater damaged by fire to extent of \$4,500; costly to the film and machine.

Iowa, Des Moines—Masons of Adelpic lodge reported to be planning for a \$50,000 lodge building.

Iowa, Melbourne—Odd Fellows will build, 2-story, store on first floor, lodge room above, cost \$5,000; J. W. Smith, chairman building committee.

Iowa, Marshalltown—Chippewa Tribe No. 40 of Red Men



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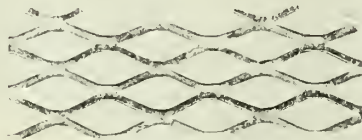
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Kenwood Masonic temple, at Hackett av. and Park pl., for Kenwood lodge No. 303, F. and A. M.; brick with terra cotta front, 3-story and basement, 55x115, with hot water heating and cost \$55,000.

**Wis., Milwaukee**—Kirchoff & Rose, architects, 1312 Majestic building, completing plans for new \$60,000 St. John's home for aged ladies at Bradford and Prospect avs.; bids early in April.

**Wis., Milwaukee**—Competitive plans have been submitted by six architects for a building to be erected for the Moritz Arnit-Aurora Fraternal Association of Odd Fellows; 3-story, 54x120; \$40,000.

**Wis., Osseo**—According to plans made at a meeting of citizens, this city will have a municipal opera house, a gymnasium, an art gallery, a motion picture theater and a public library; R. M. Blackman, community secretary.

#### BIDS WANTED.

**Wis., Milwaukee**—Brust & Phillips, architects, 503 Free Press building, nearly ready for bids for erection of a \$90,000 motion picture theater and office building for the Badger Investment Co., on 2d st., just south of Grand av.; brick, concrete and steel, 3-story, with foundations capable of holding 4 additional stories, 50x150; theater seating 1,300; bids early in April.

**Wis., Milwaukee**—Brust & Phillip, architects, 503 Free Press building, taking bids until April 5, for erection of addition to Knights of Columbus institute, Grand av. and 15th st., to cost about \$50,000; brick and stone, 3-story, 94x145, low pressure steam heating and mechanical ventilating systems.

#### CONTRACTS AWARDED.

**Iowa, Breda**—Contract to Frank Fee of Carroll for a \$10,000 opera house, to be built by the Breda Hall Association; brick, pressed brick front.

**Iowa, Sioux City**—Contract for face and common brick for the new building for the Elks' club let to the Sioux City Brick & Tile Co.

**Minn., Warba**—Contract for the new town hall in the center of the township let to Wm. Pogue at \$1,083.

**Minn., Windom**—Contract to J. B. Nelson Construction Co., Mankato, Minn., for lodge building for Windom lodge No. 108; 34x122, 2-story and basement, \$20,000.

**S. D., Redfield**—Contract to H. F. Stolte for new theater building to be put up here.

**Wash., Walla Walla**—Contract to Norman McLeod for general on 2-story brick and concrete moving picture theater, at \$20,000; furniture to A. H. Andrews Co., Chicago, at \$12,000; plastering to W. G. Redmond, Seattle, at \$3,351.

## SCHOOLS

**Minn., Boyd**—H. Edward Walker, architect, 202 Lumber Exchange building, Minneapolis, has completed sketches for high school, 2-story and basement, cost \$18,000.

**Minn., Milaca**—Fire destroyed the modern school building, valued at \$60,000; insured at \$43,500.

**Minn., Northfield**—All bids were rejected on boys' dormitory at Carleton college; 3-story and basement, attic, 256x37, irr., cost \$100,000; Patton, Holmes and Flynn, architects, 8 S. Dearborn st., Chicago, Ill., and 228 McKnight building, Minneapolis, Minn.

**Minn., Ottawa**—School will be erected here this summer: cost \$6,000.

**Mont., Terry**—School board are planning to build a \$20,000 addition to the school.

**Neb., Nickerson**—A new school may be built here, 2-story and basement; cost \$12,000; Ryley Mengel, secretary.

**Neb., Oakland**—Plans have been prepared by Architect B. Kvenild, 426 Range building, Omaha, for 2-story and basement, 30x60, school; bids being taken by A. B. Prezen, president, board of education, also by architect.

**Neb., Scottsbluff**—Architect Hehnke is preparing plans for school, to be erected this summer.

**S. D., Clark**—School board is planning to have new school building erected to be ready by 1916; cost \$40,000; architects being selected now; J. B. Heinmiller, superintendent of schools, Redfield, S. D.

**Wis., Carrollville**—Plans will be started soon for 2-story and basement school, cost \$12,000; Chandler & Park, architects, 400 Main st., Racine, Wis.; J. Hughes, clerk, board of education.

**Wis., La Crosse**—Board of education will conduct a competition among the architects, to obtain plans for proposed junior high school to be built in North La Crosse.

**Wis., Madison**—Low bidders on \$90,000 Lincoln grade school,

Mason, Morgan & Morgan, Madison; carpenter work, A. D. Frederickson, Madison.

**Wis., Milltown**—Plans will be completed about April 1, by Architects Alban & Lockhart, 347 Endicott building, St. Paul, Minn., for high school, 2-story and basement, 102x72; cost \$36,000; Jens Larson, clerk of board.

**Wis., Milwaukee**—School board is having plans made for \$65,000 school on Oklahoma av.; brick and stone, 2-story and basement, 90x174, 12 class rooms and manual training and domestic science departments; Van Ryn & DeGelleke, architects, Milwaukee; contracts to be let about June 15.

**Wis., Milwaukee**—Frank M. Harbach, secretary, board of education will receive bids April 10, for \$30,000 addition to Hopkins st. graded school; solid brick, 2-story, 85x90, and boiler house, solid brick, 1-story, 30x75; plans by Van Ryn & De Gelleke, architects, Milwaukee.

**Wis., Osseo**—A modern school will be erected here, Dwight H. Perkins, Community building, expert has been chosen to prepare plans.

**Wis., Watertown**—Board of education engaged Parkinson & Dockendorff, architects, La Crosse, for high school plans; cost about \$100,000.

#### BIDS WANTED.

**Iowa, Hansell**—Bids received until April 15, for heating, plumbing, lighting and water supply of high school; check 5 per cent; address clerk of school board.

**Iowa, Kimbalton**—Bids received until April 12, 1 p. m., for school, in Clay township, district No. 6; John F. Frederickson, secretary, school board.

**Iowa, New Market**—Bids received until April 17, 3 p. m., for school in subdistrict No. 2, Dallas township; plans on file at People's Bank, New Market; check \$50; E. J. Hughes, secretary.

**Iowa, Wilton Junction**—Bids received until April 10, for school in district No. 8, Farmington township, Cedar county; F. C. Nienaber, secretary.

**Minn., Fertile**—Date of bids on the Fertile school changed from April 3, to April 5, 7:30 p. m.; E. F. Broomhall, architect, 710 Alworth building.

**Minn., Lamberton**—Bids received until April 5, 8 p. m., for new high school, also heating, ventilating and plumbing, etc.; plans by Kirby T. Snyder, 643 Plymouth building, Minneapolis, at office of clerk, and architect; check 3 per cent; Albert H. Enersen, clerk.

**Mont., Billings**—Bids will be received until April 17, for school in Yellowstone county, districts Nos. 31 and 43; plans with clerk of school board; R. D. Embry, chairman.

**S. D., Aberdeen**—Bids received until May 6, for addition to main building of Northern normal and industrial school; plans by Architect J. W. Henry, Aberdeen; check 5 per cent; see official advertisement in the Improvement Bulletin this week.

**Wis., Independence**—Bids received until April 15, 11 p. m., for plumbing, heating and ventilating in school; check \$300, for heating, \$200 for plumbing; see official advertisement in the Improvement Bulletin this week.

**Wis., Randolph**—Mrs. J. W. Hutchinson, school clerk, will receive bids until April 16, for joint high and graded school building; cost \$20,000; plans by Raeuber & Mehmer, architects, Fond du Lac and Manitowoc; 2-story and basement, 30x90.

**Wis., Wausaukee**—Derrick Hubert, architect, Menominee, Mich., will submit completed plans about April 5, for proposed \$25,000 high school; board of education will take bids after April 12 or 19.

#### CONTRACTS AWARDED.

**Iowa, Alton**—Contract awarded to N. W. Construction Co., Fonda, Iowa, for \$11,500 consolidated school.

**Iowa, Thompson**—General contract awarded to Goslin & Goslin, Clarion, Iowa, for public school in Winnebago county; heating and plumbing to G. M. Badley, Carroll, Iowa; J. S. Cox, architect, Estherville, Iowa.

**Mich., Munising**—Contract awarded to Victor Carlson of Quinn, Mich., for graded school, cost \$40,500; heating and plumbing, to R. H. Thoensen, Munising, Charlton & Kuenzli, architects, Camp building, Milwaukee and Marquette, Mich.

**Minn., Albert Lea**—Contract awarded to C. M. Tapager, Albert Lea, at \$3,445, for school in district No. 47; other bids were: Hans Quam, Glenville, \$3,200; Rundin & Jackson, at \$3,550; Nolan & Larson, Albert Lea, 3,445; H. D. Claybourn, Albert Lea.

**Minn., Menahga**—School board of district 60, Runeberg township have awarded contract to F. E. Green for erection of school; 30x40, heating plant, modern fixtures; cost about \$2,500.

**N. D., Renville**—Contract awarded to E. A. Moline of Bottineau, for new school, heating let to H. R. Herald.



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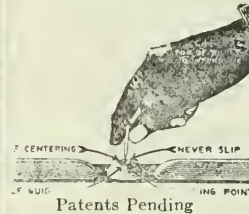
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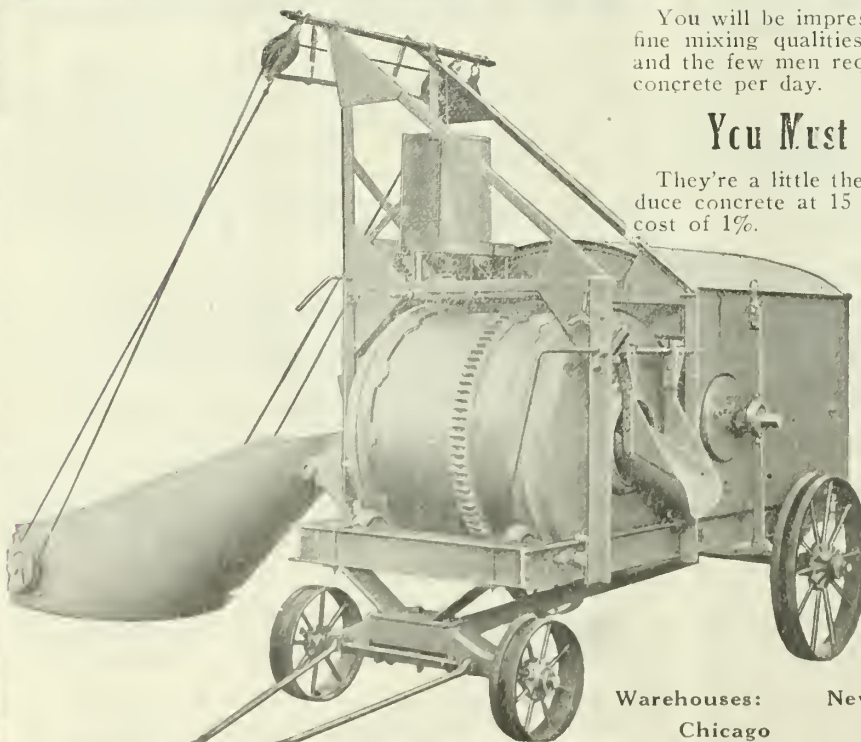
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## SCHOOLS.

\*Minn., Petersburg—Bids received till 1 p. m., April 15, for brick school; Kirby T. Snyder, architect, Minneapolis; official call for bids in Improvement Bulletin this week.

## MILLS AND FACTORIES

Iowa, Belle Plaine—Van Dyke & Dees will erect bottling factory.

Iowa, Le Mars—Grant Township Creamery burned; loss \$4,000; insured at \$2,000.

Wis., Portage—R. J. Hill will build a cheese factory.

Minn., Fergus Falls—Fire destroyed Red River Mill and one elevator; it is understood that F. G. Barrows, E. E. Adams and C. W. Kaddaz will rebuild mill soon as possible.

Minn., Litchfield—Fire destroyed woolen mills here; loss \$20,000, insured at \$8,500.

Minn., Minneapolis—Fire destroyed the interior of Sugar Feed Co., building, at 830, 15th av. SE.; loss about \$25,000.

Minn., Owatonna—Farmers' Co-operative Packing Co., capital \$500,000, may erect a modern packing plant here.

Minn., Owatonna—Factory of Amber Tanning & Glove Co. burned; loss about \$9,000; partly insured.

Minn., Verndale—Bids in on cheese factory; W. A. Stranahan, secretary, building committee.

Minn., Waterville—Waterville Co-operative Creamery Association, will erect modern creamery here, cost \$8,000; W. E. Spedden, chairman, committee; brick.

Minn., Wadena—The Farmers' Creamery Association will erect a modern creamery here; Ed. Alwin, temporary chairman.

Mont., Bridger—Fire partially destroyed the Pryor sawmill, owned by Schwend Brothers.

Mont., Coffee Creek—Negotiations are under way for flour mill here; secretary, Commercial club, interested.

Mont., Froid—A modern laundry building will be erected by Mrs. White.

Mont., Huntly—A co-operative canning factory will probably be erected here by the farmers; W. S. Oeiand, interested.

Mont., Rygate—Plans about completed for erection of a flour mill by the Farmers Equity Co.

Neb., Scottsbluff—A butter and cheese factory may be erected here on the flats this summer; J. G. Woodman and others interested.

N. D., Minot—Farmers planning co-operative mill; cost about \$50,000.

S. D., Centerville—Lakota Creamery Co. has plans drawn for two brick buildings, this year.

Wis., Appleton—Wilson Manufacturing Co. may build a factory addition and separate power plant, 32x60 and 28x32, reinforced concrete foundation.

Wis., Appleton—Woodworking plant, dry kiln, will probably be built by day labor.

Wis., Clear Lake—Plans prepared for modern \$15,000 creamery.

Wis., Eau Claire—Fire partly destroyed the mill of the Dells Paper & Pulp Co.; loss covered by insurance.

Wis., Eau Claire—Plans are being completed for Sauerkraut factory by the Libby, McNeil & Libby Co.

Wis., La Crosse—T. M. Nobel, La Crosse, was awarded general contract, for \$22,000 addition to the Wisconsin Pearl Button Co., La Crosse; brick and concrete, L-shaped, 1-story and basement, 15,000 square feet.

Wis., Manitowoc—A new \$2,000 creamery will be installed here by Alex Fischel.

Wis., Menomonie—Factory will be erected here, 28,000 feet floor space; Loyd Co., owners.

Wis., Mineral Point—Mineral Point Public Service Co. is planning extensive improvements to its steam plant, including installation of a 500 h. p. boiler and a 7,000-gallon water-softening plant.

Wis., Mosinee—John G. Prain may erect a new mill at Halder.

Wis., Neenah—Representatives of Four Wheel Auto Drive Co., of Clintonville, are looking over site for plant.

Wis., Rhinelander—W. E. Cleveland has purchased additional land for erection of addition to the boat factory, 22x40, 2-story.

Wis., Shawano—Shawano Canning Co. will enlarge their plant soon; A. C. Weber, King Weeman and others directors.

Wis., Siren—Gedney Co. will erect pickle factory here.

Wis., Wausau—O. J. Lutter, representative of A. W. Schram Manufacturing Co. of Oshkosh, is looking for site here for modern plant; 150x50, 4-story.

Wis., Woodworth—Farmers will erect factory this spring.

Wyo., Riverton—T. E. Goodman of O'Neill, Neb., has decided to erect a modern flour mill here.

Wis., Wausau—C. Gardner of Gardner & Lindberg of Chicago, engineers for the Wausau Co-operative Packing Plant, reports plans completed in a few weeks; bids about May 1.

## RESIDENCES

Iowa, Cedar Falls—Ground has been broken for erection of a \$30,000 apartment house by Geo. S. Smith, contractor.

Iowa, Chiswick—Macy Maulsby is completing plans for a modern residence.

Iowa, Parkersburg—Wm. L. Peddicord, architect, Waterloo, has prepared plans for a country home for Hahnke Brothers; contract let to Ralph Martin, Waterloo.

Iowa, Sioux City—Buettler & Arnold, architects, Sioux City, Iowa, will furnish plans for a \$6,000 residence for Ralph McElrath, of Merville, Iowa.

Iowa, Sioux City—Plans completed for an apartment house for A. F. Nash, 12th and Pearl sts.; Buettler & Arnold, architects; 2-story, brick, 12-apartment; cost \$30,000.

Minn., Little Falls—Congregational Association will erect modern parsonage.

Minn., Springfield—John Grausam will build six-room house, a barn, granary and chicken house, on his farm; cost \$2,000. C. M. Moe will build a modern farm residence. Mrs. Edw. Krueger will build a barn. In this city there will be several new residences. Martin Foy is having plans for a brick cottage. Mrs. Borchart will build a residence. Material is hauled for A. C. Lehrer's modern bungalow, cost \$6,000. Work started on Jos. Kreitinger's bungalow, modern throughout, cost \$3,000.

Minn., Winnebago—W. Hoffner, architect, Winnebago, is preparing plans for a residence for A. E. Chipman, 26x40, 9-room, modern.

Mont., Billings—Residence of Fred I. Mashaw will be remodeled into modern apartment house; cost \$9,000; R. J. Lord, local contractor.

Mont., Dillon—John McFayden will erect a modern residence.

Mont., Miles City—Bids will be in April 1, for a residence for James Hunter; frame, 12-rooms; cost \$12,000; plans by B. Rivness, architect.

Neb., Columbus—Max Elias has plans prepared for a modern \$3,000 dwelling.

Neb., Elk City—Parsonage will be erected here for Rev. Farley.

Neb., Fremont—W. O. Masman will build modern residence, cost \$5,000; contract let to W. G. Luhrs.

Neb., Grand Island—Architect Kirschke is drawing plans for two modern flat buildings for A. J. Baumann.

Neb., Lyons—A. G. Anderson will build modern residence, contract to Tibault & Osberg.

Neb., McCook—E. D. Perkins has plans for a modern residence to be built soon.

Neb., Nebraska City—J. H. Markel will build modern residence.

Neb., Omaha—J. C. Mardis & Co. will erect a modern apartment house, cost \$85,000, for O. D. Kiplinger.

Neb., Tecumseh—Frank Defoe will build a modern residence.

Neb., Wynot—Carl A. Pederson is having plans drawn for a modern residence.

N. D., Bismarck—Hon. Frank Allen of Newark, N. J., will build nine houses here; modern; plans prepared.

N. D., Minot—Plans by Robert B. Stacy-Judd, architect Minot, for a 2-story frame residence; cost \$5,000; bids taken by architect, later.

S. D., Brookings—Prof Clifford N. Mills will erect a modern residence; cost \$3,000.

S. D., Watertown—P. J. Scholtz is planning to build two double houses and one dwelling.

Wis., Appleton—Members of Catholic congregation will erect rectory.

Wis., Ashland—Dr. Brossard has plans under way for a modern residence.

Wis., Delevan—W. E. Pepper will erect an addition to his garage, 50x60.

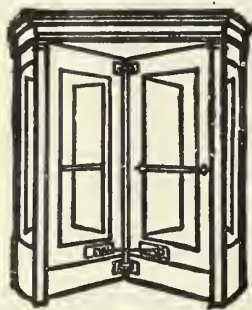
Wis., Endeavor—Harvey Barron will erect a modern residence.

Wis., Manitowoc—Otto Mueller will erect a modern house soon.

Wis., Milwaukee—John Horter will build a \$9,000 residence at Bellevue pl. and Lake Drive; brick and cement, veneer, 2½-story.



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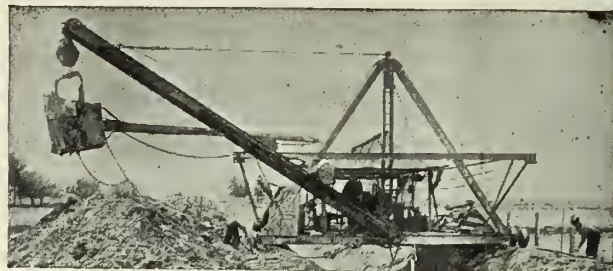
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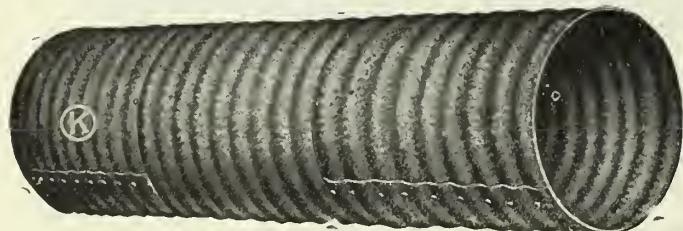
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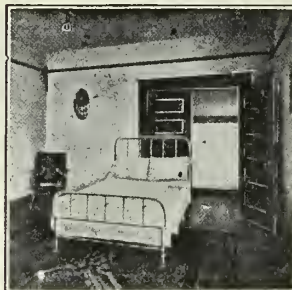
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**Wis., Milwaukee**—A residence will be erected by Mrs. Emma Steinman, brick, veneer; \$10,000.

**Wis., Neenah**—C. A. Sorenson will build several modern dwellings.

## BUSINESS BUILDINGS

**Neb., Columbus**—A new business block will be erected by the Speice-Echols-Boettcher Co.; cost \$4,400, pressed brick, 1-story, plate glass front, modern.

**Neb., Columbus**—John Umland will erect a modern brick block, pressed brick and plate glass front.

**Neb., Deshler**—Rudolph Koch plans erection of a brick store building; C. W. Way Co., architects, Hastings.

**Neb., Fremont**—H. Gus. Gumpert will rebuild store building recently burned.

**Neb., Gilead**—Ed. Ayers will erect an implement building, 48x80, modern.

**Neb., Grand Island**—Wm. Kelley & Co. will erect two 1-story buildings as soon as weather permits.

**Neb., Humphrey**—S. V. Scurr is planning to build a modern 2-story business block.

**Neb., Kearney**—Architect A. B. Lake has drawn plans for two store buildings for F. G. Keens.

**Neb., Kirk**—K. A. Asplund is planning to erect a store building soon.

**Neb., Leigh**—John Metzger will erect a modern brick store building, 25x80, contract awarded.

**Neb., North Platte**—The Howe & Maloney Co. will enlarge their store building; plans being drawn by B. M. Reynolds.

**Neb., Omaha**—Plans will be completed within 60 days for new Board of Trade building, 9 to 14 stories; cost about \$500,000.

**Neb., St. Edwards**—Dr. J. J. McCart will build a veterinary infirmary here.

**Neb., Syracuse**—E. H. Ronnau will erect a modern brick business block.

**Neb., Valentine**—C. A. Ruby and C. A. Rosseter will erect a large stone building for offices.

**Neb., York**—Judge M. M. Wildman will erect a modern business building.

**N. D., Beacn**—Fire destroyed the Houghen millinery store, loss \$1,500, insured \$1,000.

**N. D., Belfield**—A modern \$20,000 building will soon be erected by Frank Sharman.

**N. D., Beulah**—W. D. Neihuus will erect a new office building, 24x40, modern.

**N. D., Carrington**—A new modern building will be erected in place of Kidder building, recently burned; contract awarded to Contractor Burfield, of city.

**N. D., McCanna**—A new bank will be erected here; plans prepared, and on file at Builders' Exchange.

**N. D., Melville**—J. P. Kidder's general store building, burned, valued at \$6,000; loss \$3,000; will rebuild at once.

**N. D., Minot**—Fire destroyed the Public Drug Store; loss about \$14,000; Emmet Hileman, manager.

**N. D., New England**—Nils J. Person will erect a modern brick building this spring.

**N. D., Wahpeton**—Contract awarded to Thos. F. Powers, local contractor, for new bank building, by the National Bank of Wahpeton; reinforced concrete, steel finish.

**N. D., Weaver**—S. A. Myrand will erect modern brick and stone building; plate glass front.

Ernest Jessen, 2-story, 24x60, modern.

**S. D., Aberdeen**—Plans have been completed for the Schaffer Brothers' building, 50x140, 2-story and basement; work to begin April 1.

**S. D., Belle Fourche**—Two-story modern brick building will be erected by Bronson Drug Co.

**S. D., Milbank**—Miss Laura Rodgers will erect a business building.

**S. D., Sioux Falls**—Will A. Beach will erect a modern business building, 44x100, reinforced concrete, fireproof.

**Wis., Chippewa Falls**—J. K. Cady, architect, Chicago, has completed plans for Lumberman's National Bank building.

**Wis., Eau Claire**—Plans are under way for remodeling of the Kelly & Harris building; also the store of the Eau Claire Book Co.

**Wis., Grantsburg**—Standard Oil Co. will erect a building and gasoline storage tank here this spring.

**Wis., Lake Nebagamon**—Fire damaged the store building of B. Skarc, about \$4,000; partly insured.

**Wis., Lyons**—James Nelson will soon erect blacksmith shop.

**Wis., Maribel**—Fire destroyed the meat market of Andrew Urban; loss \$2,000; partially insured.

**Wis., Mayville**—The First National Bank of Mayville has purchased site for new bank building, 30x57; plans not yet prepared.

**Wis., Milwaukee**—John Pritzlaff Hardware Co. will add 8 stories to warehouse; steel and concrete.

**Wis., Neenah**—Architect Al. Messemer of Milwaukee, is preparing plans for building, for the State Bank; bids to be called for soon.

**Wis., Oconomowoc**—A. C. Eschweiler, architect, Goldsmith building, Milwaukee, is preparing plans for chemical laboratory for H. Kirk White; stucco slab construction, 2-story and basement, 25x120, asphalt shingle roof, freight elevator and steam heat.

**Wis., Oconto**—Two-story building will be erected by Otto E. Hass, concrete, steam heat.

**Wis., Racine**—Chas. H. Tharinger, architect, Milwaukee, Wis., awarded general contract to Peter Lundgard, Racine, for 2-story, brick warehouse, 34x60, one freight elevator, for Andrew Matson.

## DRAINAGE AND IRRIGATION

(Culvert news in this department.)

**Iowa, Boone**—Hearing about April 15, on drainage district 131, about \$20,000, and 120; H. A. Chambers, Co., engineers, National Bank, Boone.

**Iowa, Fort Dodge**—A bid on the \$600,000 ditching job in New Mexico, 370 miles, near Roswell, will be made by the Sargent Tile Ditcher Co., of Ft. Dodge.

**Minn., Little Falls**—Hearing April 20, on petition of county ditch by C. J. Peterson and others; B. V. McNairy, auditor, Morrison county.

**Minn., Redwood Falls**—Hearing April 20, on judicial ditch 15; W. G. Weldon, clerk district court.

**Minn., Windom**—Hearing April 10, on judicial ditch 20; P. G. Neufeld, clerk, district court.

**Mont., Eureka**—Surveys started on Glen Lake irrigation district, by A. W. Verhaven of Engineering Corporation of Helena.

### BIDS WANTED.

**Iowa, Ft. Dodge**—Bids in 2 p. m., April 7, on drain No. 213, estimated cost \$11,050; J. L. Hanrahan, auditor.

**Iowa, Indianola**—Bids may be taken about May 1, on two open ditches, 11 miles; address auditor, Warren county.

**Minn., Buffalo**—Bids in 2 p. m., April 10, on county ditch 23, cost \$1,412; John A. Berg, county auditor.

**Wis., Milwaukee**—The board of public works takes sealed bids until April 3, 10:30 a. m., for dredging the several rivers and canals in Milwaukee as may be ordered by the department during 1915; bond of \$7,500 or check for \$3,750; Fred G. Simmons, commissioner.

### CONTRACTS AWARDED.

**Iowa, Griswold**—Contract let by private owners of land to J. R. Reese, Griswold, for digging ditch on Nishnabotna river.

**Minn., Mankato**—Contract ditch 36, let to North Star Construction Co., Mankato, \$23,100.

**Minn., Mankato**—Contract let to North Star Concrete Co., Mankato, for county ditch 36, at \$23,100.

**Minn., Fairfax**—Contract let to Kircher Bros., St. Paul, at \$13,990 for tile ditch 57.

**Minn., Slayton**—Contract awarded to Widell Construction Co., Mankato, for judicial ditch 3, at \$76,995; contract will probably be let during the summer on Badger Lake ditch, which will cost about \$250,000.

**Mont., Red Lodge**—Contract let to A. B. Marcus, Polson, for excavation, Palo laterals, Flathead project, \$15,750.

**Wis., Grand Rapids**—Wood county drainage district commission awarded contract for dredging 18 miles of ditches to Gilmore Bros., Grand Rapids, at 6.94 per cubic yard; B. G. Chandos, chairman.

**Wis., La Crosse**—Contract awarded to Two River Dredge & Dock Co., this city, for a large job in Cleveland, O.

## SEWER WORK

**Iowa, Ames**—Resolution being published for sewers on certain streets; A. B. Maxwell, city clerk.

**Iowa, Cedar Rapids**—Contract to Messner & Co., Cedar Rapids, Iowa, for sewer and water connections.

**Iowa, Clinton**—City engineer ordered to prepare plans and specifications for sewer system in 5th ward; F. W. Leedham, city clerk.





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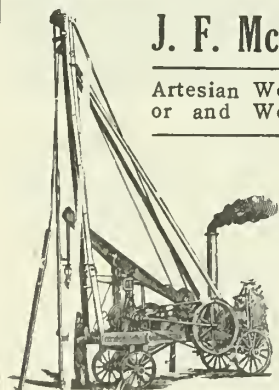


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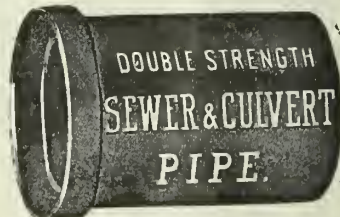
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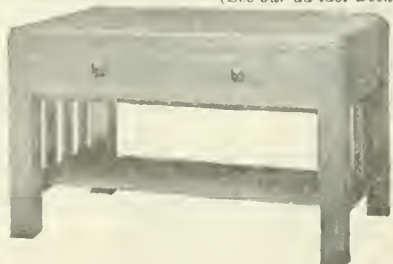


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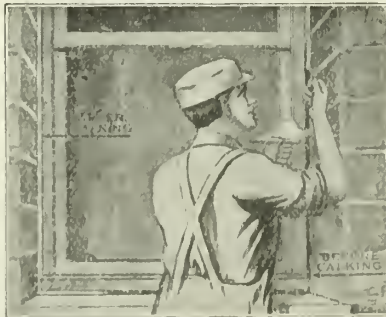
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**Iowa, Des Moines**—Resolution being published for sanitary sewer on W. 6th st., Horace Susong, city clerk; to be constructed of 12-inch clay pipe.

**Iowa, Hartley**—Hearing April 26 on sewer system to cost \$18,000; Bruce, Standeven & Boynton, Bee building, Omaha; H. T. Broder, town clerk.

**Iowa, Lake View**—Plans in progress for a sewer system to cost about \$14,000; Bruce, Standeven & Boynton, engineers, Bee building, Omaha, Neb.

**Iowa, Lake Mills**—M. Tschirgi & Son, Cedar Rapids, Iowa, are preparing plans for a sewer system and disposal plant to cost about \$25,000; A. Aasgard, mayor.

**Mich., Ishpeming**—Citizens voted \$30,000 for sewer system; address city clerk.

**Minn., Breckenridge**—Hearing April 19 on sewer work; L. H. Standring, city clerk.

**Minn., Duluth**—Petition filed with city clerk for sewer in Glendala st.; R. Murchison, commissioner.

**Minn., Rochester**—Streets and alleys committee reported favorably on sewers on Beaver, Oak, Division and Grove sts., and city engineer instructed to make estimates for the enlargement of the sewer on 8th st., between Franklin and Main; also storm sewer specifications have been ordered; T. A. Sullivan, city clerk.

**Minn., St. Paul**—Hearing April 2, on the Fredericks-Fairmount sewer system, estimated to cost \$139,351; Aug. Hohenstein, purchasing agent.

**Neb., Grand Island**—Referendum vote at the spring election on spending \$100,000 for new sewer system; address city clerk.

**Neb., North Platte**—Orders received from Union Pacific headquarters to build a sewer from round house to the river; address city clerk.

**Neb., Ravenna**—Bonds to amount of \$22,000 issued for installation of new sewer system; address city clerk.

**Neb., Wisner**—City is considering putting in sewers; address city clerk.

**Neb., Grand Island**—A complete sewer system being planned for; H. W. Kibbey, engineer.

**Neb., Wisner**—Election April 9, to vote on bonds for a \$20,000 sewer system; C. S. Daily, city clerk.

**S. D., Yankton**—Petition filed by majority of property owners for sewer on Walnut st. and referred to proper commissioner; address city clerk.

**Wash., Spokane**—Reported city council has ordered bids to be called for in three groups on sewer changes growing out of N. P. grade separation, to cost \$50,000; Morton McCartney, city engineer.

**Wis., Baraboo**—Citizens will vote April 6, on bonds for \$10,000 for the East st. sewer; address city clerk.

**Wis., Fond du Lac**—Sewer ordered in Liberty st. and petitions filed for sewers in Central av.; J. F. Hohensee, city clerk.

**Wis., Eau Claire**—Practically decided to build sewers in Mappa st., Mill and Bach sts.; question of the outlet will be investigated before action; address city clerk.

**Wis., Green Bay**—Hearing April 27 on sewer plans for 18th sewer district; L. Findeisen, chairman, committee on sewers.

**Wis., Waupaca**—Resolution passed to authorize sewers on High, Union, Washington and South Main sts.; address city clerk.

#### BIDS WANTED.

**Iowa, Dubuque**—Bids received by J. J. Shea, city recorder, until 8 p. m., April 8, for a storm water sewer in 5th av., cost not exceed \$3,000; check for \$150; also, at same time, storm water sewer in Rosedale av., reinforced concrete, not to exceed \$1,650; check for \$100.

**Iowa, Postville**—Bids received by Wm. Shepherd, city clerk, until April 7, for a sewer system  $4\frac{1}{2}$  miles long, 8, 10 and 12-inch pipe and a sewage disposal plant, estimated to cost in all \$25,000; Aetna Engineering Bureau, engineers, 17 N. La Salle st., Chicago, Ill.

**Iowa, Sioux City**—Bids received by Paul J. Wells, city clerk, until 10 a. m., April 3, for a storm sewer in 20th st.; check for 5 per cent.

**Iowa, Tripoli**—Bids received by H. W. Bockhaus, city clerk, until about April 30, for a sewer system to cost \$35,000; M. Tschirgi & Son, engineers, Cedar Rapids, Iowa.

**Minn., Eveleth**—A. P. Romer, city clerk, instructed to advertise for bids for storm sewers in Garfield, Pierce and Cleveland sts., and in Adams av.

**Minn., Hibbing**—Bids received by O. B. Warren, secretary of the park board, until 4 p. m., April 14, for 2,500 lineal feet 8-inch split vitrified sewer pipe (cut or channel pipe), No. 1, f. o. b. cars Hibbing; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 12, for six (6) jobs of

sewer work; check for 10 per cent.

**Minn., Virginia**—Bids received by Albert E. Bickford, city clerk, until 8 p. m., April 13, for sewer pipe from 8 to 36 inches; check for 5 per cent.

**Wis., Janesville**—Bids received by Jas. A. Fathers, chairman, board of public works, until 2 p. m., April 16, for sewer work in districts Nos. 5, 10, 11, 14 and 15; contracts will be let for doing all the work in each district.

**Wis., Oconomowoc**—Bids received by C. H. Schoeneke, city clerk, until 1 p. m., April 7, for 4,420 feet 8-inch sewer pipe, 1,500 feet 12-inch, 16 manholes and 3 flush tanks.

**Wis., Platteville**—Bids received by J. E. Kennedy, city clerk, until 7:30 p. m., April 7, for 404 feet of 8-inch sewer pipe construction and 1 manhole on Furnace st., and 865 feet of 8-inch pipe and 3 manholes on Water st.; check for 10 per cent.

**Wis., Waukesha**—Bids received by board of public works until April 8, for vitrified pipe sewer work on East av., being 700 feet of 30-inch pipe; 709 feet of 24-inch pipe; 25 feet 18-inch pipe; four manholes and five catch basins.

#### CONTRACTS AWARDED.

**Iowa, Mason City**—Contract to S. E. Bowen, city, for sewer in Wildwood and E. Park pl., at \$30,000.

**Iowa, Mason City**—Contract to S. R. Bowen for sewer construction proposals on two jobs; second bids on three sets of proposals received but awards not made.

**Iowa, Perry**—Contract to W. G. Birdsall, storm water sewer on W. Willis at \$1,149.

**Minn., St. Paul**—Contracts for sewer work as follows: J. J. Connolly, in James st., \$400; C. A. Carlson & Son, in Roblyn st., \$800; J. J. Connolly, in Fuller st., \$1,500.

**Wis., Kenosha**—Contract to P. Frandsen for sewers and manholes.

\***Minn., Albany**—Bids received till 7:30 p. m., April 15, for water tank and repair tower; official advertisement in Improvement Bulletin this week.

## BRIDGES

(Culvert news in this department.)

**Iowa, Manchester**—Hearing will be held April 5, 10 a. m., for construction of 11 bridges and culverts in Delaware county, C. H. Bunker, county auditor; W. H. Clute, chairman, board of supervisors.

**Iowa, Oskaloosa**—The construction of thirty-seven bridges, steel and concrete, is included in new plans of county board of supervisors for coming season, largest bridge to be 50-foot, concrete arch, with 22-foot roadway across Middle creek on New Sharon road No. 1.

**Iowa, Oskaloosa**—Construction of forty-one new concrete bridges throughout Mahaska county during spring and summer is provided for in resolution of necessity adopted by board of supervisors.

**N. D., Carrington**—County Auditor Kenneth Ferguson authorized to advertise for bids for galvanized, corrugated metal culverts, to be delivered at following stations: Grace City, Juanita, Bordulac, Kensal, Barlow, Carrington. Bids to be opened at 2 p. m., April 7. Marcus Delfs, chairman.

**S. D., Yankton**—A. C. Ellerman, general manager of Ellerman-McLain Construction Co., Yankton, states that a combination railroad and wagon bridge will be constructed across the Missouri river and desires to correspond with a promoter who has had experience along this line; also wants estimates of cost of structure.

**Wis., Beloit**—A new 1,000-foot bridge will be built over the Rock river by the Rockford & Interurban Co., of Rockford. Work to begin within a month.

**Wis., De Pere**—Henry Alberts, city engineer, is making final plans for reconstructing the Fox river drawbridge; cost, \$21,000. Bids in about April 20.

**Wis., Milwaukee**—Special election will be held April 6 to vote on erection of bridge across Milwaukee river at N. av.; cost, \$240,000.

**Wis., Racine**—Contract awarded to P. W. Galloway of city for construction of bridge to span Root river near Horlick's dam, at \$7,185.

**Wis., Sparta**—Contract awarded to W. E. Gifford of Madison, representing the Elkhart Bridge & Iron Co., at \$1,278 for construction of the Peppluski bridge, town of Portland.

#### BIDS WANTED.

**Iowa, Clinton**—Bids received until April 7, 2 p. m., for construction of twenty-five bridges; steel truss, and reinforced concrete, for year 1915. Check for 5 per cent. F. G. Hanson, county auditor; J. W. Smith, chairman board of supervisors.



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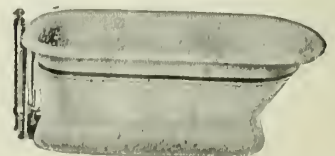


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**Iowa, Clinton**—Plans have been received for bridge over Mill creek west of Lyons by County Engineer Lorenzen. Bids to be opened April 7.

**Minn., Breckenridge**—Bids received until May 3, for a bridge between sections 20 and 29; plans at office of Town Clerk C. W. Williams.

**Minn., Canby**—Bids received until 2 p. m., April 28, for state bridge No. 1736, county road No. 3, Normania township, Yellow Medicine county; plans with county auditor and state highway commissioner, St. Paul; check 5 per cent; G. H. Wilson, auditor.

**Minn., Mora**—Bids received until April 22, 2 p. m., for bridge No. 1543, town of Arthur, Kanabec county; 16-foot span, 18-foot roadway, reinforced concrete, foundation; plans at office of Town Clerk Chas. C. Jarvis and highway commissioner, St. Paul; check 5 per cent.

**Minn., Shakopee**—Bids will be received until 11 a. m., May 11, for state bridges Nos. 1379 in town of Cedar Lake and 1561, town of Belle Plaine; also on May 11, 2 p. m., bids to be opened for state bridge No. 1698, town of Glendale; county auditor authorized to advertise for corrugated iron culverts for 1915; A. J. Mayer, auditor.

**N. D., Devils Lake**—Bids received until April 6, 2 p. m., for following steel reinforced culverts (concrete): Two 12-foot bridges, one 16-foot bridge and one 16-foot bridge with 14-foot piling; first, 14-foot piling; second, 12-foot piling. Check for \$250. J. A. Kramer, county auditor.

#### CONTRACTS AWARDED.

**Iowa, Ossian**—Contract awarded to Federal Bridge Co., Des Moines, for 9 bridges to be built in county the coming season.

**Minn., Bemidji**—Contract awarded to A. Robbinstad of Roosevelt, Minn., for culverts in judicial ditch No. 24.

**Minn., International Falls**—Contract awarded to Klauer Manufacturing Co., of Dubuque, Iowa, for corrugated iron and steel culverts; 613 pieces, 15-inch by 38 feet corrugated iron culverts, 53c per foot; 1 piece 24x38 corrugated iron culvert, 96c per foot; 1 piece 30x38 corrugated iron culvert, \$1.20 per foot; total of \$12,427.

**Minn., Roseau**—Contract awarded to Plymouth Construction & Rep. Co., Minneapolis, at \$985, for state bridge No. 1411, state road No. 1; other bids were: F. W. Clifford, Minneapolis, \$1,030; Minneapolis Bridge Co., Minneapolis, \$1,174; Northern Construction Co., Thief River Falls, \$1,023.

**Minn., Roseau**—Contract has been sublet by Illinois Steel Co., on steel bridge over Witner road, to Lewis Grund.

**N. D., Grand Forks**—Bids will be received until April 20, for six steel spans, bridges on Polk county, during summer; H. J. Welte, county auditor.

#### WATER WORKS

**Minn., Minneapolis**—Council water works committee will consider the requests for laying of about 50 lateral water mains, work to begin as soon as frost is out of ground.

**Neb., Grant**—An election will be held April 6 to vote on \$8,000 bonds for a water works system.

**Sask., Humboldt**—Plans being prepared for a distribution system by Chipman & Power, Toronto, Ont.; cost, \$110,000; contract to be let soon, as bonds are sold. W. H. Stiles, town clerk.

**Wis., Wittenberg**—W. G. Kirchhoffer, civil engineer, Madison, Wis., is preparing plans for a municipal water works system for fire protection; only \$12,000 bond issue being prepared; plans will call for a 40,000-gallon tank on an 80-foot tower; 6,000 feet of 6- and 8-inch mains, drilling wells, etc. I. J. Nelson, secretary.

#### BIDS WANTED.

**Iowa, Northwood**—Bids received until April 12, 3 p. m., for reconstruction of water tower, steel round bottom tank, including repairing of present frost case, of a tell tale float switch, with alarm bell, wiring, ground, etc., plans at office of town clerk and Iowa Engineering Co., Clinton, Iowa; check \$250; J. E. Amundson, town clerk.

**Neb., Fordyce**—Bids received until April 20, 7 p. m., for construction of water system; plans at office of Village Clerk L. S. Wise; check 5 per cent.

**Neb., Grand Island**—Bids received until April 7, 8 p. m., for approximately 55 tons of 12-inch class D, cast iron water pipe; separate bids for furnishing pipe, and for labor, lead, jute and laying pipe, consisting of about 1,050 feet of 12-inch water mains; check 5 per cent; H. E. Clifford, city clerk.

**N. D., Bismarck**—Bids received until April 7, 3 p. m., for a 3-inch tubular well with compressed air tank complete, ready for use. Check for 5 per cent, by board of county commissioners. T. E. Flaherty, county auditor.

**S. D., Lemmon**—Bonds have been voted to extend water works. Engineers, Minneapolis, Minn., have prepared plans

and specifications, and bids will be submitted about April 19; combined and separate bid will be received on labor and material; Chas. L. Pillsbury, engineer, 805-11 Metropolitan Life building, Minneapolis.

**Wis., Oconomowoc**—Bids received until April 7, 1 p. m., for water mains, and appurtenances, by H. A. Ernst, A. C. Coyle and L. J. Flotow, board of public works, J. Alex Stemper, city engineer; check 5 per cent; plans at office of city clerk.

**Wis., Clintonville**—The city clerk will receive bids until April 12 for approximately 2,110 feet of 6-inch cast iron water mains, in Shawano st. Check for 5 per cent. Julius Spearbraker, secretary.

#### CONTRACTS AWARDED.

**Minn., Chisholm**—Contract let to R. M. Heskett, manager of Chisholm Electric Co., to pump water for the village of Kinney for 5 years.

**Minn., New Ulm**—Contract awarded to J. G. Robertson & Co., St. Paul, Minn., at \$4,755, for deep well pump and all necessary equipments for new reservoir.

**S. D., Sioux Falls**—Contract awarded to A. S. Cameron Steam Pump Co. for pump and motor for well No. 3, at \$949.

**\*Wis., Elkhorn**—Contract for drilling new artesian well and making connections to municipal water works system, was awarded to the F. M. Gray Artesian Water Supply Co., Milwaukee; cost \$5,000.

#### STREET AND ROAD WORK

**Iowa, Storm Lake**—The Bruce-Standeven-Boyington Engineering Co., Omaha, have been employed to have charge of engineering work for the proposed paving; address city clerk.

**Iowa, Sioux City**—Members of council will act quickly, when new state law is effective, on five highways leading out of the city; the Broken Kettle route of 3¼ miles; Perry Creek route of 2½ miles; Correctionville road of 3 miles; Big Sioux or Military road of 3½ miles; and Leeds route of 5 miles; all to be paved with 16-foot concrete, estimated to cost about \$13,000 per mile; address city clerk.

**Minn., St. Peter**—Engineer's report has been filed and viewers will soon start out on state rural highway No. 57, estimated to cost \$30,106; this will require 40,142 square yards grading, 14,651 cubic yards gravel surfacing, 28 sectional culverts from 12 to 36-inch in diameter, and 7,950 feet of turnpike; W. H. Holtz, auditor of Nicollet county.

**Minn., Winona**—After bids were all in on the proposed road work in Winona county last week, three of the five members voted in favor of a motion that no bonds should be issued by the county to pay for the roads for which bids had just been opened, which means the end of proposed construction. All bids rejected.

**Mont., Columbia Falls**—R. H. Rutledge, acting district forester, located at Missoula, writes that the department will begin construction on the Deep Creek-Coal Creek section of the North Fork road as soon as climatic conditions will permit; this is known as the North Fork wagon road and will require an expenditure of \$20,000; bids will soon be advertised for by R. P. McLaughlin, Forest Supervisor, Kalispell, Mont.

**Mont., Lewistown**—Hearing will soon be held on boulevarding a district on Erie st. between 7th and 8th avs.; address city clerk.

#### BIDS WANTED.

**Iowa, Davenport**—Bids received by Hugo Moeller, city clerk, until 7:30 p. m., April 7, for grading, curbing and paving streets and alleys as follows: on East st., with brick, estimated to cost \$7,822; Ridgwood av., brick estimated to cost \$3,538; Washington st., asphalt, estimated at \$8,463; Main st., asphaltic concrete, estimated at \$47,265; Rock Island st., asphaltic concrete, estimated at \$14,820; alley, rough concrete, estimated at \$2,311; alley, rough concrete, \$916; alley, rough concrete, \$941; alley, rough concrete, estimated at \$1,053; alley, rough concrete, \$1,119; alley, rough concrete, 43,589; Mississippi av., beveled brick, estimated at \$13,577.

**Iowa, Forest City**—Reported bids will be received by city clerk until April 16, for 32,000 square yards paving, either concrete, asphaltic or brick; also, 22,000 feet curb and gutter and other work.

**Iowa, Marengo**—Bids received by W. R. MacGregor, city clerk, until April 5, for all cement sidewalks and crossings for one year.

**Iowa, Oskaloosa**—Bids received by L. T. Shangle, secretary, school board, until 8 p. m., May 3, for cement walks at new 4th ward school building; check for \$50.

**Minn., Alexandria**—Bids were ordered to be advertised for on the culverts for the Iron Road; C. H. Jensen, auditor of Douglas county.



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**Minn., Avon**—Bids received by the county board at Avon, Stearns county, until 10 a. m., April 10, for road construction requiring 2.2 acres clearing, 2.4 acres grubbing, 19,150 cubic yards grading and 9,700 lineal feet turnpiking, at estimated cost of \$5,279; check for 5 per cent; Nicholas Thomey, county auditor, St. Cloud, Minn.

**Minn., Excelsior**—Bids received by Al. P. Erickson, auditor of Hennepin county, Minneapolis, Minn., until 11 a. m., April 19, for grading and graveling 3,840 lineal feet of road bed of road No. 82; check for 5 per cent.

**Minn., Granite Falls**—Bids received by G. H. Wilson, auditor of Yellow Medicine county, until 2 p. m., April 27, for one or more elevating road graders and 12-foot blade graders.

**Minn., Madison**—Bids received by A. G. Shogren, auditor of Lac qui Parle county, until 4 p. m., April 6, for one road grader, blade grader, and seven 1½-yard dump wagons.

**Minn., Melrose**—Bids by N. Thomey, county auditor, St. Cloud, Minn., until 3 p. m., April 9, for 4.6 miles of road construction, requiring 18 acres clearing, 18 acres grubbing, 24,870 cubic yards grading, 4,905 cubic yards ditching, at an estimated cost of \$8,525. Check for 5 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 12, for cement, screened sand, concrete sand, gravel or stone, sandstone blocks, brick blocks, pitch, ½-inch reinforcing steel, straight, granite curbing, creosoted blocks, header lumber, vitrified pipe, sandstone curb and sewer pipe; check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 12, for eleven (11) jobs of paving, grading, curbing, etc.; certified check for 10 per cent.

**Minn., St. Paul**—Bids received by Aug. Hohenstein, purchasing agent, until 10 a. m., April 12, for 2,075 barrels Portland cement; check for 10 per cent.

**Minn., Slayton**—Bids received by E. V. O'Brien, auditor of Murray county, until 2 p. m., April 5, for two 12-foot blade wheel road scrapers; check for 10 per cent.

**Minn., Virginia**—Bids received by Albert E. Bickford, city clerk, until 8 p. m., April 13, for cement sidewalk construction for the year 1915.

**N. D., Center**—Bids received by Frank J. V. Kiekert, county auditor, until 11 a. m., April 6, for road graders, wheeled scrapers, fresnos, slips, road-drags and road plows, bids to include prices on both small and large lots, f. o. b. any station within a radius of 25 miles of Center; check for \$50.

**S. D., Yankton**—Bids received by John W. Summers, city clerk, until 9 a. m., April 19, for grading and paving on Douglas av. with Portland cement, requiring approximately 3,520 square yards paving and about 395 cubic yards earth excavation; check for \$50.

**Wis., Beloit**—The date for close of bids on street work has been changed from April 8 to the 10th, at 2 p. m.; Geo. P. Haynes, chairman, public works committee.

**Wis., Eau Claire**—Bids received by J. C. Fennessey, city clerk, until 2 p. m., April 14, for concrete pavement on various streets aggregating 10,200 square yards; check 5 per cent. Officially advertised in this issue of the Improvement Bulletin.

**Wis., Kaukauna**—Bids received by city clerk until April 5, for grading and paving Wisconsin av., Canal st., Lowe st. and Main av.; check for \$500.

**Wis., La Crosse**—Bids received by W. J. Price, city controller, until 2 p. m., April 24, for asphalt macadam and brick paving on various streets.

**Wis., Milwaukee**—Bids received by Fred G. Simons, commissioner, until 10:30 a. m., April 7, for 770 square yards creosoted wooden blocks and 400 square yards hard sand stone blocks.

**Wis., Oshkosh**—Bidders on road machines were as follows: Gallion Iron Works, Gallion, O., grader, \$350 and \$375; scarifier, \$400. Russell Grader Manufacturing Co., Minneapolis, grader, \$675; scarifier, \$675 and \$415. Good Roads Machine Co., Ft. Wayne, Ind., grader \$375 and \$350; scarifier, \$350. R. E. Runsey, for Western Road Machine Co., Chicago, grader, \$550, \$400, \$300 and \$275; scarifier, \$450. Whitewater Bridge Co., Whitewater, Wis., grader \$210, \$235 and \$375; the \$235 grader with scarifier attachment, \$285. J. D. Adams Co., Indianapolis, Ind., grader, \$600 and \$325, both with scarifier attachment. Henry Pagel, Oshkosh, Baker's Torpedo scarifier, \$427. Thos. A. Getchius, Oshkosh, grader, \$400, \$350 and \$300; scarifier, \$350.

**Wis., Plymouth**—Bids received by H. A. Lucake, city clerk, until 8 p. m., May 1, for 21,000 square yards permanent pavement on concrete foundation, 10,745 feet curb and gutter and other accessories, bids to be taken on reinforced concrete, asphaltic concrete, vitrified paving brick, and asphaltic macadam.

**Wis., Sturgeon Bay**—Bids received by J. G. Langenak, city

clerk, until 3 p. m., April 12, for 20,000 gallons No. 4 asphaltum road oil (40 to 50 per cent), and one air pressure oil distributor of 600 gallons capacity.

**Wis., Stoughton**—Bids received by L. C. Currier, secretary, until noon, April 16, for water-bound macadam paving and combination curb and gutter on four streets.

**Wis., Superior**—Bids received by W. R. Russell, chairman, board of public works, until 1 p. m., April 9, for improvement and repavement of Tower av. from 58th to 64th st., concrete foundation or bituminous macadam or concrete, surface to be sheet asphalt, reinforced concrete, asphaltic concrete or creosoted blocks; all to be kept in good repair for 5 years.

**Wis., Waukesha**—Bids received by Chas. J. Hahn, county highway commissioner, until noon, April 7, for grading, culverts and surfacing on various roads, requiring 5,255 cubic yards grading, 28,900 square yards macadam surfacing, and 120 cubic yards in culverts; check for \$200.

**Wis., West Bend**—Bids received by city clerk, until 7:30 p. m., April 22, for concrete pavement on Main st.

#### CONTRACTS AWARDED.

**Idaho, Lewiston**—Contract to Warren Construction Co., Portland, Ore., for constructing road in Lewiston Orchards at about \$100,000.

**Ill., Moline**—Contract to A. E. Rutledge, Rockford, Ill., for 28,000 square yards 5-inch concrete base at 55c, 28,000 square yards brick pavement with asphalt filler and 2-inch sand cushion at \$1.41, 28,000 square yards brick pavement relaid at 50c, and 20,270 feet concrete curb at 43c.

**Iowa, Boone**—Contract to Des Moines Asphalt Paving Co. for 43 blocks of paving at \$1.47½ per yard; and to the Boone Construction Co. for curbing and guttering at 53c per lineal foot.

**Iowa, Cedar Rapids**—Paving contract No. 1 to Ford Paving Co., city, at \$17.897, for vitrified brick block and sand filler; contract No. 2, to same at \$91,932, for vitrified brick and asphalt filler; contract No. 3 to Western Improvement Co., Racine, Wis., at \$39,271; curb and gutter to Percy P. Smith, Cedar Rapids, Iowa, at \$8,015 for west side and \$1,990 for east side.

**Iowa, Clarinda**—Contract to J. S. McLaughlin & Sons, Red Oak, Iowa, for 27,100 square yards paving and 17,964 feet curb at \$23,194; pavement is concrete, 1-2-4, not reinforced, 6-inch thick, grading included in contract.

**Iowa, Davenport**—Contract to Davenport Stone & Marble Co., for permanent sidewalks in 1st and 2d districts at 10c per square foot.

**Iowa, Logan**—Contract to P. G. Ryan, Council Bluffs, Iowa, for county road work at from 13 to 18 cents per cubic yard, amounting in all to \$8,000.

**Iowa, Mason City**—Contract to the Bryant Asphalt Co., of Waterloo, for 23,000 square yards paving and 13,200 feet of curb at \$1.64 per square yard for the paving and 36c per foot for the curbing. Other bidders were the Ford Paving Co. of Cedar Rapids at \$1.72 and 39.5; and James Horrabin of Iowa City, at \$1.69 and 40c; Trinidad natural cement will be used.

**Iowa, Nevada**—Contract to Dauer Manufacturing Co., of Dubuque for 2,640 feet of culverts at \$1.175, being about 44.6c per foot, the price last year having been 68c; contract to P. E. Shugart for grading 14 miles of county road at 17c per cubic yard.

**Iowa, Sioux City**—Contract to Hanlon & Oakes for paving of Grandview boulevard, and Jensen & Krage for paving 20th and 21st sts.

**Minn., Duluth**—Contract to the Sanitary Street Flusher Co., St. Louis, two horse-drawn street flushers at \$860, on account of certain patent devices; other bidders were: Tiffin Wagon Co. at \$833, and the Studebaker Corporation at \$785; contract to the Studebaker Co. for two oil sprayers at \$439 each.

**Minn., Eveleth**—Contract to Russell Grader Manufacturing Co. for three dump wagons with oscillating doors at \$330, and to Austin Western Manufacturing Co. for two dump wagons with oscillating doors at \$250.

**Mont., Big Fork**—Contract for addition to Big Fork hotel to Ernest O'Brien; will also build a dance hall, 40x60.

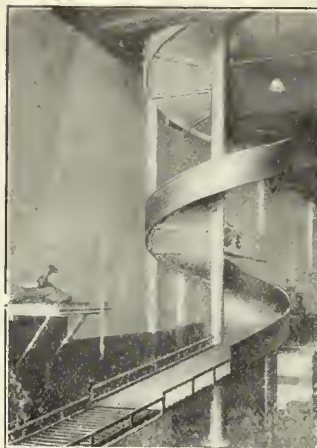
**Mont., Dillon**—Contract for a Holt gasoline caterpillar traction engine at \$4,150, and also one Mogul grader complete, one extra cutting edge for same and one large Rooter plow, at \$750, both f. o. b. Dillon.

**S. D., Yankton**—Contract to M. L. Flinn Paving Co., Sioux City, Iowa, for paving Douglas av. with concrete at \$1.45 per square yard.

**Wis., Fond du Lac**—Contract to Murphy Construction Co., Manitowish, Wis., for paving on Cottage av. and Johnson st.; also to J. Rasmussen & Sons Co., Oshkosh, Wis., for paving on Western av. and Superior sts.

**Wis., Superior**—Contract to John Diffor, city, for paving Belknap st. with concrete at \$22,567, the lowest of twelve bidders.





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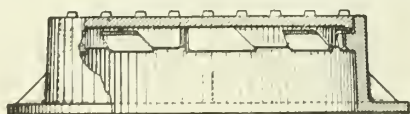


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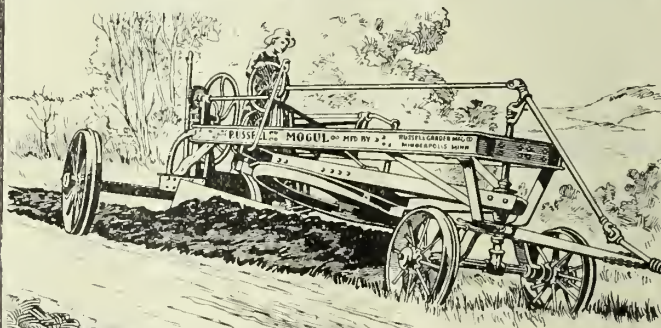
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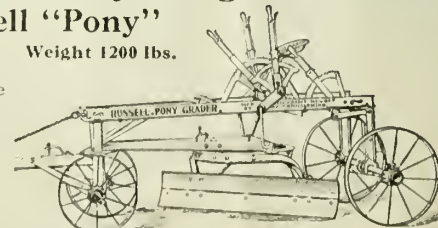
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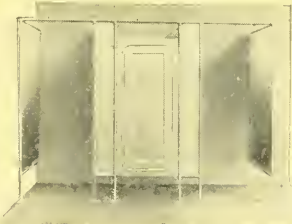
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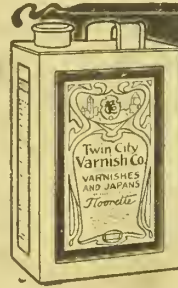
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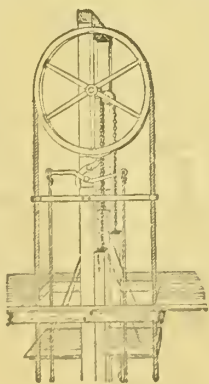
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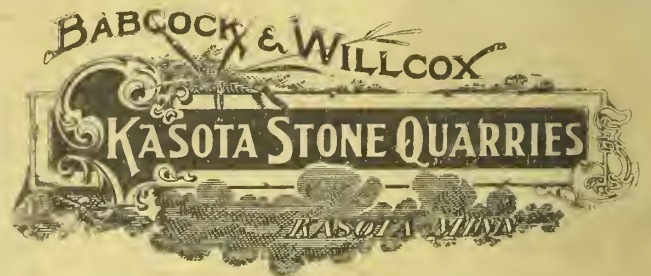
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